

For Retailer, Wholesaler and Manufacturer

OCTOBER 6 1956



ALLEN & HANBURYS LTD LONDON E2

6 doz. and over 14 9 per doz. 1 - per doz. 12 doz. and over 14 3 per doz. 1 6 per doz. Orders for this offer also qualify for discount under our no mal £15 speciality terms. Carriage will be paid on orders of £5 and over.









POTTER'S CRYSTALLISED CATARRH PASTILLES

POTTER'S CATARRH PASTILLES

THOMPSON'S SLIPPERY ELM FOOD



Avoilable in 3 varieties:

•MALTED •UNMALTED

•WHOLEMEAL

Potters

PHARMACEUTICAL PRODUCTS

made by the sole manufacturers

POTTER & CLARKE





POTTER'S
ASTHMA REMEDY & CIGARETTES

Also POTTER'S ASTHMA SMOKING MIXTURE

Other good-selling Potter's lines:
THOMPSON'S DANDELION COFFEE

THOMPSON'S DANDELION COFFEE ESSENCE

ANTEXEMA (Liquid & Granules)

CHAMELEON OILS (Human & Veterinary)

THROUGH WHOLESALERS ONLY, PLEASE!

POTTER'S NEW RANGE OF PHARMACEUTICAL PASTILLES



GEE'S LINCTUS B.P.C.



GLYCERIN & BLACKCURRANT



GLYCERIN, LEMON & HONEY

Sole Proprietors:

POTTER & CLARKE LTD · RIVER ROAD · BARKING · ESSEX · TEL: RIPpleway 3041



INTRAVENOUS TUBERCULOTHERAPY



Intravenous sodium PAS infusion for miliary, meningitic and severe forms of tuberculosis is an established technique; some sanatoria now favour I.V. PAS as first choice even in moderate cases because of its very high tolerability.

I.V. infusions demand the use of crystalline sodium PAS of first-grade quality, for which purpose 'AMINACYL' (Wander) brand of specially purified crystalline PAS is supplied to sanatoria in bottles of 250 grammes.

> The Wander range of tuberculostatics also includes the following oral forms:

B-PAS WANDER

Calcium B-PAS (Wander), first introduced by our Research Laboratories in 1948, provides the advantages of high bacteriostatic levels, and excellent acceptability because it is practically tasteless.

> PACKS:—Powder: Tins of 150 and 500 × 3.5 g. envelopes Cachets: Tins of 80 and 400 × 1.0 g.

B-PASINAH' WANDER

For concurrent therapy, 'B-PASINAH' provides 1 g. B-PAS and 25 mg. INAH in convenient Cachet form, packed in tins of 100 and 500.

> All Wander tuberculostatic products may be obtained from usual wholesalers or direct from

A. WANDER LIMITED

42 Upper Grosvenor Street, Grosvenor Square, London W.1

CANADA: A. Wander Ltd., Peterborough, Ontario, AUSTRALIA: A. Wander Ltd., Devonport, Tasmania, NEW ZEALAND: A. Wander Ltd., Christchurch, INDIA: Khatau Valabhdas & Co., Indian Globe Chambers, Fort Street, Fort, Bombay, I. PAKISTAN: Grahams Trading Co. (Pakistan) Ltd., P.O. Box 30, Karachi, CEYLON: A. Baur & Co. Ltd., Colombo.







Quinine

the natural antimalarial

Quinidine

including

Quinidine Gluconate

for injection

N.V. Amsterdamsche Chininefabriek, Amsterdam

N.V. Nederlandsche Kininefabrick, Maarssen

DISTRIBUTORS:

R. W. GREEFF & CO., LTD.

HEAD OFFICE

Garrard House 31/45, Gresham Street, London, E.C.2

Monarch 1066

Wires: GREEFF, CENT, LONDON

and at

The Royal Exchange, Manchester

Blackfriars 9407-8

Wires: Greeff. Manchester



Smiler introduces a new friend

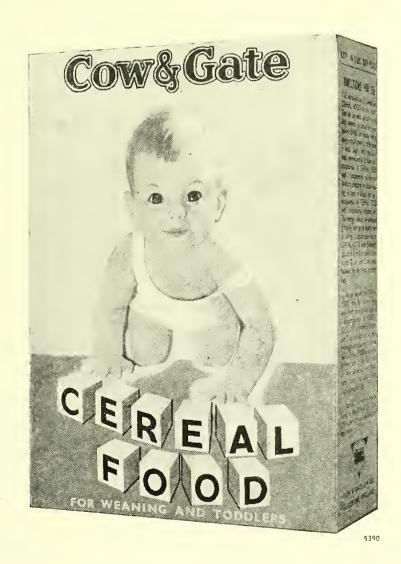
and to make sure that all your customers know about this new product—Cow & Gate CEREAL FOOD—large spaces have been booked in the magazine press with national coverage, including Woman, Woman's Own, Radio Times, Mother, Woman's Weekly, Nursery World, etc., beginning November, 1956.

During the initial launching of this campaign a bonus of 1/2d. for every dozen cartons ordered during October and November is offered, so place your orders now and be prepared for the rush!

Cow & Gate CEREAL FOOD is packed in full colour 8-oz. cartons, I dozen to the outer, trade price 14/5d. per dozen (or 13/3d. per dozen during above bonus period), and will retail at 1/6d.

Carriage Paid on 2-dozen and over.

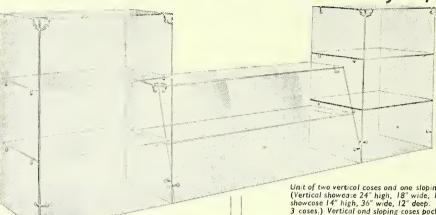
Please address your enquiries and requests for promotion matter to:—



COW & GATE LTD., Guildford, Surrey.

Its crystal clear...

The more they SEE, the more they BUY



The beauty of a Martin glass display case is that it shows merchandise of every description to your customers' best advantage. Each individual case, with its gleaming chrome fittings, is tested and guaranteed before delivery. Choose a vertical or sloping showcase and build better business from the moment it is installed.

Unit of two vertical cases and one sloping case. Price per set £12. 0. 0. (Vertical showcase 24" high, 18" wide, 12" deep. Price £4. 5. 0. Sloping showcase 14" high, 36" wide, 12" deep. Price £4. 5. 0. You save 15/- on 3 cases.) Vertical and sloping cases pocked separately. All prices corriage poid in Gt. Britain. All packages FREE of charge and NON-returnable.

Special orders to customers' own requirements carried out quickly. Quantity orders on application.

MARTIN'S GLASS DISPLAY CASES

LOOK INTO IT TODAY—EQUIP YOUR SHOP THE MODERN WAY! Send immediately for fully illustrated leaflet of Martin Display Cases and prices.

Name

Address

Post to: MAPTIN DISPLAY (Dent CD) 52 Market St. Watford Horts. Tel: Watford 9287

Post to: MARTIN DISPLAY (Dept. CD), 52 Market St., Watford, Herts. Tel: Watford 9287

First class facilities for

MANUFACTURE PACKING AND DISTRIBUTION

OF TABLETS, LIQUIDS, POWDERS



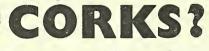
Better products well packed for HOME and Export.

Tell us what you want — we'll do the rest.

THOMAS MARNS LTD.,

GREEN LANE, HOUNSLOW HOUNSLOW 5122

Dispensing



Immediate delivery from RANKIN BROTHERS & SONS (RANKIN PARTNERS, LTD.)

OWNERS OF THE FINEST CORK FORESTS IN PORTUGAL

139 Bermondsey St., London, S.E.I
Telephone: HOP 0074

TRADE VERLOG MARK

SURGICAL ELASTIC HOSIERY

Belts, Trusses, Suspensory Bandages, etc.

ATHLETIC SUPPORTS

Knee Caps, Anklets, Jockstraps
THOS. GLOVER & SON, LTD., CARLTON, NOTTINGHAM
Tel.: 58227 (2 lines). 'Grams: Verlog, Nottingham

BURROUGH'S

DOUBLY

JAMES BURROUGH LTD.,

I CALE DISTILLERY LONDON S.E.II

LABORATORY NATIVELLE LTD, presents :-

NATISEDINE

A new GENERAL SEDATIVE with elective cardiac action

Each tablet contains:
Phenylethylbarbiturate of Quinidine: 0. 10 gm.
A new, crystalline salt of high purity, stable and with definite physical characteristics.

Tube of 20 Retail price 10/2½

Bottles of 100 (Dispensing Packs)

LABORATORY NATIVELLE LTD

74 White Lion Street, London, N.I

Other lines: NATIVELLE'S DIGITALINE—OUABAINE ARNAUD IODHEMA—NATIROSE

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Gardiner & Co. (The Scotch House) Ltd., 1, 3 & 5 Commercial Road, London, E.I. Tel: BIShopsgate 6751/3

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'PERNIVIT' TRADE MARK is widely held to be the most effective oral treatment as well as a preventive against the reappearance of chilblains.

Containing Acetomenaphthone B.P. 7 mg. and Nicotinic Acid B.P. 25 mg. Pernivit tablets are available in bottles of 50—display cartons containing six bottles are a valuable aid to sales.

Chilblains-

oral and local treatment

'PERNICREAM' relieves, by local

application, the irritation and itching of chilblains. It is a non-greasy preparation incorporating amethocaine, menthol and benzyl alcohol.

A new showcard is available in addition to the display carton of 12 tubes of 'Pernicream'.

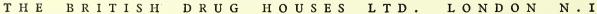
'PERNIVIT'

'PERNICREAM'

Bottles of 50 tablets 2/- 3/,, 500 ,, 13/- 19/6
(Exempt from P.T.)

Collapsible tubes 1/8 3/- (Inc. P.T.)

Details of special terms for quantity purchases in B.D.H. Information or on application





As a result of the largest Advertising Campaign in Red Heart history-more and more dog owners will come to YOUR shop for

RED HEART!

Even more people own Cats-so you should sell Red Heart CAT Food too!

The RIGHT feed for EVERY breed!



FREE! RED HEART DISPLAY MATERIAL

Please pin this coupon to your letter heading and post to John Morrell & Co. Ltd., 57 Victoria Street, Liverpool 1.

& Co. Ltd., 57 Victoria Street, Liverpool 1.

Please send me display cards for item(s) marked with a tick.

DOG FOOD

CAT FOOD

CV3-78

JOHN MORRELL & COMPANY LTD., 57 VICTORIA STREET, LIVERPOOL 1



offer a comprehensive range of

PASTILLES

Manufactured under ideal conditions in the new extension specially constructed for the production of high grade pastilles.

attractively packed or supplied in bulk
display material competitive
available prices

ARTHUR H. COX & CO. LTD., BRIGHTON, ENGLAND



ENSURE THAT YOU HAVE A GOOD SUPPLY OF

SIMPSONS SHAVING BRUSHES

ATTRACTIVELY PACKED FOR

Christmas Gifts

Available to your customers

PRICES RANGE FROM 170/- to 2400/- per doz.

other lines available with ordinary packing

DO NOT DELAY - SEND YOUR ORDER NOW

SIMPSONS SHAVING BRUSHES

NIMMER MILLS . CHARD . SOMERSET

TELEPHONE: CHARD 3265

ENABLE YOUR CUSTOMERS
TO GIVE THE BEST
AT CHRISTMAS

ORDER NOW A SUPPLY OF

COATES HIGHEST QUALITY HANDRAWN TOILET BRUSHES



PURE BRISTLE BRUSHES IN SATINWOOD AND EBONY

Ladies 230/- to 780/- per doz. Gents Military 294/- to 1200/- per doz.

Also Best Quality Bath and Toilet Brushes

COATES BRUSHES LIMITED

NIMMER MILLS . CHARD . SOMERSET

TELEPHONE: CHARD 3265

Good Heasons





MEDICAL PRESS These are the
five good reasons
why we guarantee
you can sell more

SANATOGEN in 1956/57

than ever before!

NURSING PRESS

DISPLAY MATERIAL

THE BIGGEST-EVER NATIONAL PRESS CAMPAIGN

is right behind you, selling Sanatogen to old and new customers month after month throughout the year.

featuring two complementary campaigns





Eye-catching HALF-PAGE advertisements like these*— designed to broaden the market for Sanatogen and build goodwill for both

the product AND you.

Large-size advertisements like these, telling your customers why they need Sanatogen and where to get it.

in these big-name newspapers

DAILY EXPRESS
NEWS CHRONICLE
DAILY SKETCH
OBSERVER*
EMPIRE NEWS
SUNDAY GRAPHIC

DAILY HERALD
DAILY TELEGRAPH
MANCHESTER GUARDIAN*
PEOPLE
SUNDAY EXPRESS*
GLASGOW HERALD*

DAILY MAIL*
THE TIMES*
NEWS OF THE WORLD
SUNDAY DISPATCH
SUNDAY TIMES*

with a total circulation of 35,250,392

THE MOST POWERFUL MAGAZINE CAMPAIGN IN SANATOGEN HISTORY

telling your customers all about Sanatogen, every month of the year.

with compelling advertisements like these

How to get MORE out of life

FOLLOW THESE SIMPLE RULES

Refuxation. Devote half an hour, morning and afternoon, to complete relaxation. It's time well spent.

Follow this routine for a week or so, and you should find your energy and

YOU MAY NEED EXTRA HELP
Closely associated with nervous tension are the physical symptoms of latigue and listlessness. Owing to your emotional state, ordinary food



stand arill, but it cannot percent the guard blowing his whistle. Already, so moreous is on its usty, beinging at provident and its newcopable street. "Pull posterly injection" (toy tell is. How we wish we could

* Attractive full-pages will help to pre-sell your customers on Sanatogen before they even set foot inside your door!

in these widely-circulating magazines

RADIO TIMES WOMAN'S WEEKLY GOOD HOUSEKEEPING MOTHER STITCHCRAFT WOMAN'S JOURNAL

WOMAN PEOPLE'S FRIEND MOTHER & HOME VOGUE

READER'S DIGEST

WOMAN'S OWN PICTURE POST HOUSEWIFE MY HOME WIFE & HOME FAMILY DOCTOR

with a total circulation of 21,375,040

ADVERTISING TO 41,000 DOCTORS ADVERTISING TO 90,000 NURSES AND MIDWIVES

is building goodwill and promoting recommendation.

Special campaigns for medical & nursing press in these magazines—

BRITISH MEDICAL JOURNAL

MEDICAL WORLD

MEDICINE ILLUSTRATED

PRACTITIONER

MODERN MEDICINE OF GT. BRITAIN

JOURNAL FOR INDUSTRIAL NURSES

NURSING MIRROR
MIDWIVES' CHRONICLE
QUEEN'S NURSES MAGAZINE
WOMAN HEALTH OFFICER



with a total circulation of 210,025

HANDY SHOWCARDS to make customers stop, look and buy

Colourful display material like this will remind customers to buy!



Help yourself to EXTRA SALES! Stock up, display and recommend Sanatogen

The protein nerve tonic that STRENGTHENS YOUR NERVES

SOLD OF A STATE OF THE SOLD OF



LEFT TO RIGHT: Jeffrey Frankel, ATV Sales Promotion. Patrick Henry, ATV Sales Director, Jack Klein, Managing Director, Max Factor Ltd. W. Whitby, Director, Crane Publicity Ltd. (Advertising Agents for Max Factor). Peter Mears, ATV Agency Executive. Gerry Stacy, ATV Research Manager.

... men who need immediate sales response

Max Factor spend more on TV advertising than any other cosmetic firm, and now ...

And now Max Factor and their advertising agents, Crane Publicity Ltd., are planning next year's TV campaign on an even bigger scale. Why? Because this famous Hollywood firm is sold on TV.

Jack Klein, Managing Director of Max Factor, says: "Today, with a first-class range of products backed by vigorous advertising in all media, Max Factor is the fastest-selling cosmetic on the market. In this highly competitive field, TV is a valuable addition to other media, offering as it does added impact for the large range of products that Max Factor market."

But big spending does *not* mean extravagance. Whatever the size of your appropriation—large or small—there's no waste in ATV advertising. For example, thousands of firms selling women's products can now, thanks to the new narrow time segments on ATV, reach just the people they want—*housewives*. And if this is done in the afternoons, at off-peak times, the cost is incredibly low.

REDUCED BY 30%

The pro rata rate on ATV—based on the cost of a 30-second spot—is about a farthing a family. But in off-

peak times (best for women viewers) this rate is reduced by 30%. For example, on Sunday afternoons this autumn, between 2.30 p.m. and 4.15 p.m. something like half a million women will be viewing—at a cost of only £180 for a 15-second spot.

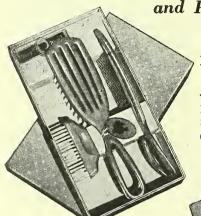
ATV gives you television advertising which is both economical and effective. ATV's programmes secure big audiences, and ATV's rate structure lets you choose the exact audience you want to reach. Our Sales Executives will be glad to advise you on how to get the best coverage with ATV—both in London and the Midlands.



ASSOCIATED TELEVISION LIMITED, TELEVISION HOUSE, KINGSWAY, LONDON, W.C.2. Telephone: CHAncery 4488

magic Presentation Sets **BY Hughes** R CHRISTMAS

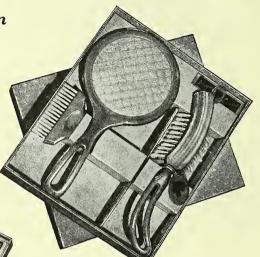
In Pearlescent, Pink, Blue, Green and Pearl



MAGIC

"MAJOR"

3-piece set No. 8311. Retail 12/9 85/4 per dozen (Fixed Tax 25/-)



MAGIC "CRESCENT"

3-piece set

No. 8511. Retail 13/6 90/- per dozen. (Fixed Tax 26/4)

MAGIC "CRESCENT"

4-piece set

No. 8611. Retail 21/-132/7 per dozen (Fixed Tax 53/1)



MAGIC "MILITARY"

No. 7912 Nylon filled in Ivory, Ebony, T/Shell. Retail 6/11, 46/3 per dozen (Fixed Tax 13/7)



NAIL BRUSH

No. 6213. Retail 4/9 31/9 per dozen (Fixed Tax 9/4) In Black, Red, Metallic Blue, Metallic Green, Yellow and Ivory



In Pearlescent, Pink, Blue, Green, Pearl, Primrose, Black.

BATH BRUSH

No. 5513. Retail 11/6. 76/11 per dozen (Fixed Tax 22/7)



DOLPHIN NAIL BRUSH

No. 5813. Retail 5/-33/6 per dozen. (Fixed Tax 9/10)

Obtainable NOW FROM YOUR USUAL WHOLESALER

38/244

Hughes Brushes Ltd., Slough, Bucks



NATIONAL ADVERTISING

BEGINS ON

Introducing a real LLER! THE NEW LADYE JAYNE WALLET CONTAINING Ladye Jayne Hair Grips GRIPS GUSHION TIPPED

The very popular Ladye Jayne cushion tipped hair grips are smooth inside to prevent 'drag'. They are now available in this new attractive handbag wallet which contains 24 grips.

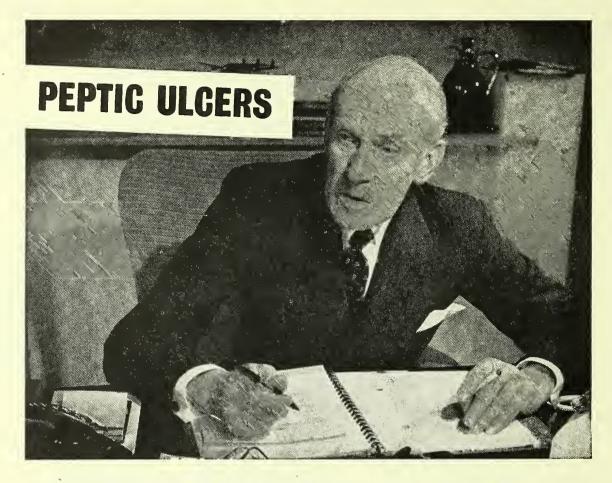
STRONG ADVERTISING BEGINS OCTOBER

WOMAN'S OWN MODERN WOMAN . SHE WOMAN & BEAUTY WOMAN'S ILLUSTRATED **EVERYWOMAN**



Ladye Jayne HAIR GRIPS AND CLIPS

FROM YOUR USUAL WHOLESALER. If in any difficulty write to the manufacturers: JARRETT, RAINSFORD & LAUGHTON LTD., Birmingham 14



Pursuing his normal (pH) business

Benjamin McDougall, Esq., is a typical hard-pressed businessman. Year after year he carries a heavy burden of worrying responsibility. Peptic ulcers trouble him at intervals and the threat of them is always present.

A clear case for ALUPHOS TABLETS. Aluphos Tablets, alone of common antacids, buffer the gastric secretion to pH 2.0—2.5—a normal value at which peptic digestion is not inhibited.

As a buffer, Aluphos Tablets act quickly and remain effective for several hours. Aluphos Tablets cannot cause 'acid rebound' and there is no risk of alkalosis. They are non-constipating. Mr. McDougall will appreciate Aluphos Tablets because they are palatable, portable and efficient.

Aluphos Tablets are economical—the basic N.H.S. price is 2/7d. per box of 50 tablets.

A clear case for ALUPHOS TABLETS

BENGER LABORATORIES LIMITED . HOLMES CHAPEL . CHESHIRE

BENGER



IRON BY INTRAMUSCULAR INJECTION

BENGER LABORATORIES, who introduced the first intravenous iron preparation. now present a new and equally effective iron complex for intramuscular administration. ITS NAME IS IMPERON. The introduction of this new compound considerably simplifies the control of iron deficiency anaemias in both hospital and general practice.

Note these advantages . . .

- ★ Imferon is the first effective preparation of iron to be suitable for intramuscular administration.
- ★ Imferon provides the rapid, reliable response of an order hitherto only obtainable with intravenous preparations; and it is much less time-consuming to administer.
- ★ Imferon is particularly indicated for the patient who is refractory to, or intolerant of, oral iron; and when a rapid response is required, as in anaemia of pregnancy.
- ★ Imferon provides the equivalent of 50 m.g. of iron in each millilitre.

AMPOULES 2 ml. (100 mg. Fe.) boxes 10 and 100; AMPOULES 5 ml. (250 mg. Fe.) boxes 5 and 50 Fully-descriptive literature on request. A Technical Information Service is at your disposal.



Iron-Dextran Complex

A PRODUCT OF BENGER RESEARCH

BENGER LABORATORIES LIMITED . HOLMES CHAPEL . CHESHIRE

Review introduce new medicated Silicare

BIGGEST SELLING
PROTECTIVE LOTION

Revlon's Medicated 'SILICARE'—the first silicone-based lotion for hands and body will be on sale soon in

Tested and recommended by leading skin specialists.

Revlon's Medicated 'SILICARE' outsells all other

protective lotions in the United States.

Britain.

MEDICATED Silicare

Protective lotion for hands and body
MEDICALLY TESTED AND PROVEN

PHARMACAL DIVIS

MEDICATED

Protective lotion for hands and body

OTECTS... Against ekin mage from harsh soops d detergents. OMOTES HEALING

OMOTES HEALING ... toally helps heal red, e hands.

FTENS...Rough, hard, icked or chapped skin.

ICALLY TESTED AND PROVEN

Kevlon HARMACAL DIVISION

REVLON'S MEDICATED SILICARE WILL SEND SALES SOARING
IN THE HIGH PROFIT HAND CARE FIELD

PRODUCT OF REVLON PHARMACAL DIVISION

GALENICALS



for WINTER DISPENSING

Manufactured under strict supervision from finest quality ingredients.

RICHARD DANIEL & SON LTD.

MANUFACTURING CHEMISTS

MANSFIELD ROAD DERBY. TEL.: 48266 (4 lines)

And at GROSVENOR ST., ASHTON-u-LYNE. Tel.: 2816 (3 lines)





Tens of millions will see these Advertisements in

DAILY EXPRESS
DAILY MIRROR
DAILY MAIL
NEWS CHRONICLI
DAILY HERALD

Oct. 12th & Nov. 16th

Oct. 19th & Nov. 23rd

Oct. 26th & Nov. 30th

CHRONICLE Nov. 2nd & Dec. · 7th

Nov. 9th & Dec. 14th

This advertising campaign is certain to stimulate the retail sales of SUBA-SEAL Hot Water Bottles; particularly when taken in conjunction with the attractive showcards in full colour which are available, on application as point-of-sale aids.

See that YOU are well stocked up with the attractive SUBA-SEAL range.



WILLIAM FREEMAN

"SUBA-SEAL" WORKS, BARNSLEY, YORKS.
"Phone 4081. "Grams "SUBA-SEAL BARNSLEY"

Sell her this new BRIGHT idea!

NOW IS THE TIME TO DISPLAY

HOUSEWARE MADE FROM...



MADE FROM

Articles bearing this label are made from 'Alkathene', the sign

 Y^{OU} Can sell any amount of goods made from 'Alkathene' —The original polythene discovered by I.C.I.

'Alkathene' houseware is in the public eye just now. Full page colour advertisements in national women's magazines make it easy to sell. The full weight of this advertising is behind your sales drive. Striking and attractive display material is available on application, from your normal suppliers. Why not organize your own 'Alkathene' Week with special window and interior displays? Your customers will recognise the 'Alkathene' label which appears in every advertisement. They will ask for 'Alkathene'.

I.C.I. do not themselves manufacture houseware from 'Alkathene'. All enquiries for individual articles should be addressed to the manufacturers through the usual trade channels.



IMPERIAL CHEMICAL INDUSTRIES LIMITED · LONDON · S.W.I

'Alkathene' is the registered trade mark for the polythene made by I.C.I.

WARRICK BROS. LTD. & ROBERT GIBSON & SONS LTD. announce the formation of a joint selling organisation

In future orders for both companies will be dealt with at

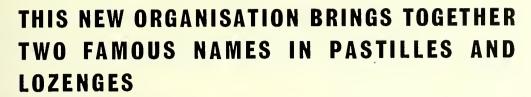
PERKINS STREET, COVENTRY

The following representatives have been appointed to the joint organisation:

SCOTLAND	Mr. D. Wylie, 40, Stewartville St., Partick, Glasgow, W.1.
N.E. ENGLAND	Mr. M. L. Mason, Dairsie, Dalton Green Lane, Huddersfield.
N.W. ENGLAND	Mr. F. Harwood, 425, Barton Road, Stretford, Manchester.
N. MIDLANDS	Mr. H. C. Roberts, 47, Thornfield Road, Heaton Mersey, Stockport.
S. MIDLANDS	Mr. C. F. G. Ball, 38, Marmion Grove, Dudley, Worcs.
E. LONDON & E. COUNTIES	Mr. G. Creamer, 7, Wetherill Road, Muswell Hill, London, N.10.
W. LONDON & MIDDLESEX	Mr. N. H. Rippin, 8, Brightside Ave., Staines, Middlesex.
S.E. ENGLAND	Mr. A. G. Wraight, 54, Malden Road, Cheam, Sutton, Surrey.
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Perfume, soap and Cologne.

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N.B. Owing to their special nature, these British Medical Association booklets will only be available to the public from chemist shops.

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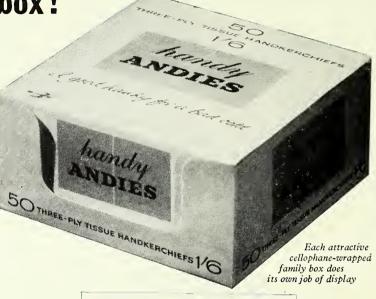
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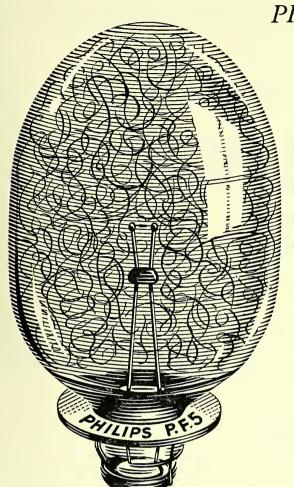
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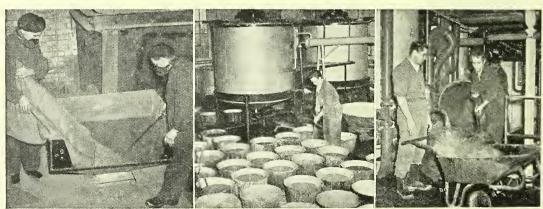
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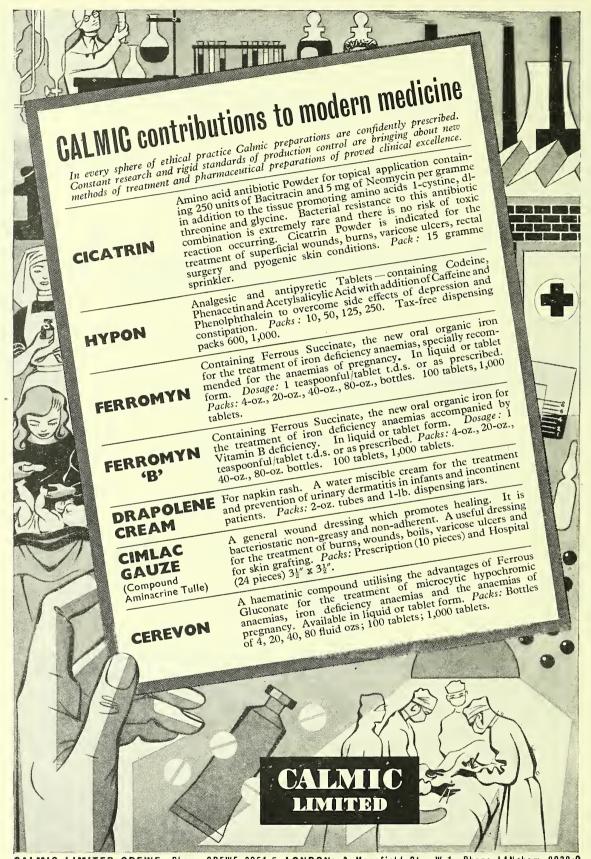
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CITROZE for up-and-at-'em energy!



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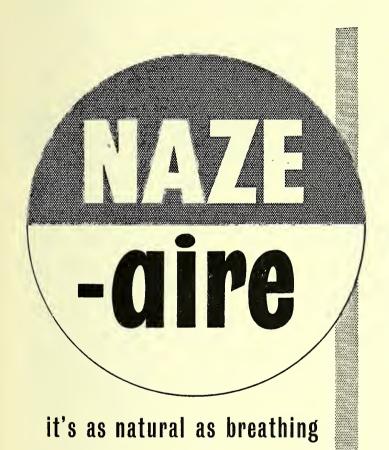


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Aerosol Relief for Nasal Congestion

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father uses it mother uses it. So do

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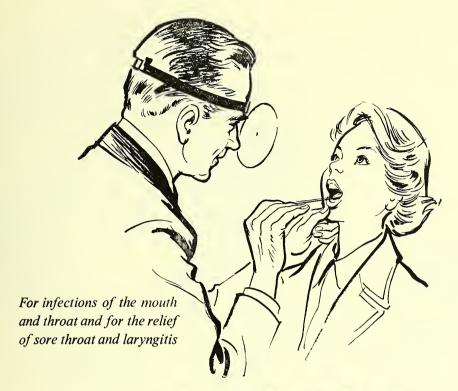


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Formula: 'Hibitane' Dihydrochloride 5 mg. Benzocaine B.P. 2 mg.

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I remember now. That was the stuff that did Connie's child so much good after his flu. I'd been meaning to ask her...

I could have told you — our doctor had me on it for a while. But I didn't know you were feeling run down.

Oh, it's not *me*, only father's been feeling very "elderly" lately, so after what Connie said I thought he ought to have a course of it to pick up his appetite. I'd better get some while I'm here.

Could you have anticipated that purchase and reminded the customer to get her 'Neuro Phosphates' by any other means than point-of-sale like 'Neuro Phosphates', which has been a house-

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CHEMIST

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 166

October 6, 1956

No. 3998

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Does not impair appetite nor produce agitation

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Volume 166

OCTOBER 6, 1956

No. 3998

Thomas Miller Memorial

CEREMONY AT BIRDSGROVE HOUSE

THE late Mr. Thomas Miller, Manchester, was honoured when a lily pond and fountain in his memory was presented to the Pharmaceutical Society at the Society's convalescent home, Birdsgrove House, Derbys, on September 23.

Approximately 100 attended the ceremony, of whom fifty were members of the Manchester Pharmaccutical Association and Branch of the Society of which Mr. Miller was secretary for many years. Welcoming the visitors from the Manchester area, Mr. T. Heseltine (a member of the Society's Council and chairman of the Benevolent Fund Committee) mentioned the many gifts from Manchester pharmacists that graced Birdsgrove House. Referring to the late Mr. Miller, he spoke of the many years of service rendered by Mr. Miller and the esteem in which he was held not only by Manchester pharmacists, but by pharmacists throughout the country. The lily pond was a thing of beauty and would mellow with age, a worthy memorial to one who gave so much to pharmacy.

"A Friend to all Pharmacists"

Miss I. F. A. Lewis (president, Manchester Pharmaceutical Association) mentioned that Mr. Miller had been secretary of the Manchester Pharmaceutical Association and Branch of the Society for thirty years until his retirement in 1953. He was a friend to all pharmacists and was always ready with help and advice. He was deeply interested in the Benevolent Fund, and especially in Birdsgrove House and worked hard on behalf of those worthy causes. A Thomas Miller medal was awarded annually to a student chosen

by the head of the pharmacy department at Manchester University, the first medal being presented by Miss Miller. It was thought that there should be a permanent memorial at Birdsgrove House and it was decided that the memorial should be a lily pond. It was thought that that was what Mr. Miller would have chosen himself, knowing that it would give pleasure to so many people, especially those convalescing at Birdsgrove House. Miss Lewis then, on behalf of all the pharmaceutical organisations in the Manchester area, asked Mr. Heseltine to accept, on behalf of his committee, the lily pond as a memorial to the late Mr. Thomas Miller. Miss Miller thanked the Association for inviting her to be present. She spoke of her father's work on behalf of pharmacy, of his love of the work and of his devotion to duty, never sparing himself and possessing that so essential gift of friendship and approachability. He had chosen to do his work quietly and efficiently. She thanked all the pharmacists who had subscribed to the memorial and declaring the pond open, the fountain was turned on. Mr. Heseltine thanked Miss Miller and gave her a framed photograph of the lily pond as a reminder of the occasion. Mr. J. R. WALMSLEY (chairman of the Manchester Branch of the Society) thanked Mr. Heseltine and the Committee for arranging the function and for the

hospitality provided at Birdsgrove House.

Miss Richardson (a member of the Birdsgrove House staff) presented Miss Lewis and Mrs. Spaanderman with a gift as a reminder of the occasion.

Lewis and Mrs. Spaanderman with a gift as a reminder of the occasion. The Association and Branch record their thanks to Mr. P. D. J. Spaanderman (vice-president, National Pharmaceutical Union Executive) for stocking the pool with plants and fish and to the staff at Birdsgrove House for the reception and the refreshments provided.

Chemists Federation

TRADE PRACTICES ACT REGISTRATION

THE Chemists Federation intends registering under the Restrictive Trade Practices Act, 1956, and, if necessary, to take all steps to ensure the continuance of its policy of restricting the sale of medicinal products to pharmacy. A meeting of the C.F. Council was held on September 20, the president (Mr. G. E. Mann) in the chair. Meetings of committees were held the previous day. It was stated that the council had informed all members about its intention to register under the Act and that it might be necessary to make certain alterations to the constitution and rules before registration but that those would not in any way affect the main principles of the movement and members would be kept informed of any future developments. Meantime, the work of the organisation would continue as before unless in due course the court to be set up under the Act ruled to the contrary. Members have been asked to take no action under the Act so far as C.F. is concerned as all necessary steps will be taken on their behalf by the C.F. council. The following applications for manufacturer membership were accepted:—Fletcher, Fletcher & Co., Ltd., Vibrona Laboratories, Hollo-





PRESENTATION CEREMONY: Left: a general view of the ceremony at which the Thomas Miller memorial lily pond was presented to the Pharmaceutical Society. Right, Mr. T. Heseltine (chairman of the Society's Benevolent Fund Committee) thanks Manchester Association and Branch for the gift.

way, London, N.7 (Dygerma non-poisonous germicide, Nostroline nasal remedy, Nostroline inhaler, Sterilla liquid surgical soap, Aperigran aperient granules, Aperigran forte, Effico nerve and digestive tonic, Fletcher's Flexaphyll cream, Flexaphyll deodorant tablets, Rubelix cough syrup, Bronomalt, Puritan salts); Halls Bros. (Whitefield), Ltd., Whitefield, Manchester (Mentho-Lyptus lozenges); Mayborn Products, Ltd., Berryman's Lane, Sydenham, London, S.E.26 (Sea pearls). The following additions to C.F. agreements were approved:—Cuxson Gerrard & Co., Ltd. (Aidex, Dentosine); Ernest Jackson & Co., Ltd. (Jackson's children's cough pastilles); Parke, Davis & Co., Ltd. (Cirotyl); Merck-Sharp & Dohme, Ltd. (Cydrospray); Wigglesworth, Ltd. (compound vitamin tablets); Rexall Drug Co., Ltd. (Plenamins). Bertram Griffiths Drug and Chemical Co., Ltd., 42 The Parade, Cardiff, were added to the list of C.F. wholesalers. Deleted from the wholesalers list were W. A. Wharram, Ltd., 27 Eastgate, Leeds, 2, who have ceased to trade as wholesalers.

Hospitals' Overspending WASTE OF TABLETS ALLEGATION

A SUGGESTION that patients should be given smaller supplies of prednisone tablets was made by Dr. T. Wilson, Bridlington, at a meeting of Scarborough, Bridlington, Malton and Whitby hospital group management committee, on September 25. The committee was discussing an overspending of £3,106 on drugs and dressings for Scarborough hospitals due, it was said, to the tablets costing £580 per month. The annual estimate for the drug was £1,250. Dr. Wilson said that patients were being prescribed as many as 500 tablets at a time which he described as "enormous wastage." Some patients who stopped taking the tablets after a time wasted the remainder. Mr. L. Hartley (secretary) said that patients were being warned of the expense and many were returning tablets they did not use.

Dispensing Error

ALLEGATION BY MIDDLESEX COUNCIL

MIDDLESEX County Council issued a statement on September 26 alleging that eye drops used on six children attending a clinic at Twickenham for ophthalmic examination on September 20, had been wrongly dispensed. The children became ill after the eye drops had been placed in their eyes, All received hospital treatment. The statement says: "The prescription for the eye drops was: Homatropine hydrobromide 2 per cent., cocaine hydrochloride 2 per cent., cocaine hydrochloride 2 per cent., boracic acid 1 per cent., all in distilled water. Analysis by a public analyst has disclosed that apparently hyoscine hydrobromide was used instead of homatropine hydrobromide. The symptoms noted in the children after administration of the eye drops are consistent with this analysis. . . The question of the error in the dispensing of the prescription is being taken up with the firm of chemists who made up the prescription. The parents of the children are being advised of the analysis."

Trade with Europe

SHOULD U.K. JOIN CUSTOMS UNION?

PERHAPS one of the most important developments which is now under consideration is the creation of a Euro-pean common market, said Sir Graham Hayman (president, Federation of British Industries), at Bradford, on September 27. The implications of the plan were far reaching and impossible to assess accurately, he said. Imperial Preference had been an growth factor amongst members of the Commonwealth, and although it might well diminish over the years as the members developed and broadened their own economies, its value—both moral and economic—was still too great to justify its being jettisoned in favour of a common market in Europe. On the other hand, British exports to Europe were of great importance and the country could not ignore the implications of a Customs Union between Western European countries which might well endanger our trading position in that area. That matter was now being studied urgently by the Government and the Federation had been asked to submit its views. At that stage, he added, it was not a matter of choice between one system and another. The problem was really to consider participation in a European Common market to preserve and indeed expand our future interests in that area whilst at the same time, preserving the essentials of Imperial Preference. It might be that a formula could be worked out which reconciled those two systems. That was a matter which should be studied and followed by all industry.

Health Service, 1955

MINISTRY'S ANNUAL REPORT

THE report of the Ministry of Health for 1955 was published recently. During the year 226,116,091 prescriptions were dispensed by chemists, which was 7,403,276 more than the total in 1954. The total cost of those prescriptions was £49,120,365 (£45,969,620) which was an average cost of 52 14d, compared with an average in 1954 of 50 44d. Of 7,186 samples examined under the drug testing scheme during the year, 6,726 were found to be satisfactory and 460 were investigated by pharmaceutical service committees. Of 495 cases referred to service committees in which procedure was completed during the year, no action was considered necessary in 107 cases, in 227 cases a warning was given and in 161 cases money was withheld from the contrac-tors' remuneration. In the chapter dealing with medical and hospital supplies the report notes that the production of penicillin increased during the year by 6 per cent., to 123,000,000 mega units. Production of streptomycin increased by 50 per cent. It is noted that at the end of 1955 there were no restrictions on the supplies to hospitals and general practitioners of the following antibiotics, made in Britain: Aureomycin, chloramphenicol, erythromycin, neomycin and polymixin. Viomycin was available to hospitals but not to general practitioners. Bacitracin was not manufactured but small quantities were

imported and supplied, free of charge, to hospitals by the Ministry. The manu-facture of cortisone and hydrocortisone continued to increase. Dollar imports of intermediate substances for those drugs had practically ceased by the end of 1955, being replaced by raw materials from Commonwealth sources. Home production of ACTH was limited by the number of pituitary glands available and some imports from the United States were necessary. Distribution continued to be limited to certain hospitals but there was a 44 per cent. increase in the quantity distributed during the year. The report states that exports of medicinal and pharmaceutic cal products increased to £35,900,000 during 1955 compared with £32,110,000 during 1954. The value of imports of medicinal and pharmaceutical products was £7,700,000 a decrease of £1,900,000. The decrease was mainly due to reduced imports of antibiotics and hor-mones from the United States. The report is obtainable from H.M. Stationery Office, price 9s.

SCOTTISH NEWS

His Services Recognised

PRESENTATION TO FORMER CHAIRMAN

IN recognition of his services to Scottish pharmacy, Mr. John Anderson, Dundee (a former chairman of the Pharmaceutical General Council (Scotland)) was presented with a silver cigarette box and a silver salver at a luncheon held in Edinburgh on September 26. Making the presentation, Mr. J. D.



Mr. John Anderson (left) being presented with a silver cigarette box and a silver salver by Mr. J. D. Mair.

MAIR, Glasgow (chairman of the Council) referred to the outstanding services Mr. Anderson had given to Scottish pharmacy since 1937 under National Health Insurance and also under the National Health Service, He referred in particular to the active part Mr. Anderson had taken in the negotiations that determined the conditions under which Scottish chemists entered the Health Service, and also to his work as a member of Whitley Committee B. In reply, Mr. Anderson thanked the Council for the gifts and referred to the valuable work of his former colleague, Mr. F. W. M. Bennett, Arbroath (a former chairman of the General Council). Sheriff Young (a former legal

adviser to the General Council) also paid tribute to Mr. Anderson's services. Mr. Anderson joined the General Council of Panel Chemists and the Pharmaceutical Standing Committee in October 1938; and Whitley Committee B in August 1948. He was appointed vice-chairman of the Pharmaceutical Council (Scotland) and of the Pharmaceutical Standing Committee in June 1952 and was appointed chairman of those bodies in February 1953. He served on the oncosts subcommittee, 1952–55; and on the Finance Committee, 1953–56.

NEWS IN BRIEF

THE Board of Trade has added vinyl acetate to the list of chemicals liable to Key Industry Duty.

SUMMER Time ends on Sunday, October 7, at 2 a.m. Clocks should be put back one hour at close of business on October 6.

In a window display competition during "shopping week" at Newton Abbot, September 24-29, Boots, Ltd., 30 Queen Street, gained a first prize in their section.

An item on resale price maintenance to which officers of the Proprietary Articles Trade Association have contributed is to be included in the B.B.C. television programme Panorama to be broadcast on October 8.

THE Marie Curie Memorial Foundation for the welfare of those suffering from cancer is offering Christmas seals at 5s. for seventy-two. Supplies are available from the Foundation at Shaw House, Sloane Street, London, S.W.1.

One of the guest speakers at the annual conference of the Vitamins Group, at Ashorne Hill, Learnington, recently, was Lady Isobella Frankau, who read a paper on "Chronic Alcoholism."

A DISPLAY window at Timothy Whites & Taylors, Ltd., 16 Westgate Street, Gloucester, was broken on September 20 for the twenty-fourth time; road clearance is so slight that large vehicles frequently hit the window in passing.

MR. J. C. Gough has been appointed chief inspector in England and Wales under the Agriculture (Safety, Health and Welfare Provisions) Act which came into operation in July. Messrs. J. W. Holliday and G. S. Wilson have been appointed deputy chief inspectors.

THE Ovaltine Jersey herd won the Stoke House cup and the English Cattle Society's special prize for the best Jersey sired in England, and four other first, and two second, prizes at the Buckinghamshire County Show on September 6, in addition to the championship and reserve championship.

SIR Hugh Linstead (a secretary of the Pharmaceutical Society and president of the International Pharmaceutical Federation) addressed a meeting of the Federation's Council in Hamburg on September 28. At a banquet on the following day Sir Hugh delivered an address in English, French and German. A report on his addresses will be given in a future issue of the CHEMIST AND DRUGGIST.

TOPICAL REFLECTIONS

By Xrayser

The Inquiring Mind

During my schooldays I cultivated the acquaintance of a serious youth of studious mien whose passion was the collection of information of a most impressive kind. He knew, for example, how many pennies it would take, in a straight row, to stretch from London to Bristol. He was a keen student of a weekly periodical which specialised in providing its readers with the most astonishing data, and he was ready at all times to absorb everything that the paper published. I feel certain that if, as we are told, the appetite grows on what it feeds on, my erstwhile friend, along with other avid readers of the weekly paper referred to, is now in one of the Government statistical departments. He is probably still ready to impart masses of figures, many which are of as much value as the London to Bristol line of pennies. I have not seen the boy for forty years, but I can trace his hand in the hospital returns referred to both in your editorial (p. 357) and in the hospital pharmacy forum (p. 359). He has also, I am confident, drawn up the tables which are to tell the doctor the total number of his prescriptions; the total cost; number of prescriptions per person on prescribing list; cost per prescription; and cost per person on prescribing list. He rounds off his work nicely with comparative figures for the doctor's area and for England as a whole. I am glad he has found his niche.

Glasgow Royal College

The Royal Technical College, Glasgow, is to be known officially in future as the Royal College of Science and Technology, though it is possible that the students will find a shortened version for conversational purposes. The college is the direct descendant of what is recognised as the first technical college. It was the inspiration of John Anderson, who died in 1796 leaving his money and property to found a college in opposition to the University, the reform of which he had tried unsuccessfully to bring about. Anderson was born in 1726, and before he had reached the age of thirty he was professor of oriental languages. The connection of the college with pharmacy dates back to 1904, at which time Dr. Andrew Ure introduced a course of lectures in chemistry and pharmacy. In 1884 the medical part of the school was separated, and the technical college came into being. The organised teaching of pharmacy in the college is, of course, of more recent date, being a product of the 1914-18 war. Prior to that, pharmacy was taught in small, private schools which served their purpose admirably in their day, not only in Glasgow but elsewhere even much later.

The Cortisone Film

It is the business of film producers to cater for the public taste. By so doing, more people will pass through the box-office, and a better financial return will be obtained. For a time, considerable success was attained in the field of psychiatry, and there has always been a following for the film which embodies a scene in the operating theatre. It was perhaps to be expected that cortisone, in some shape or form, would sooner or later appear on the screen, and the film "Bigger than Life" is the result. I am not surprised that the British Medical Association has expressed its disapproval. Modern treatments have become topics of general conversation, thanks to publicity in the lay Press and on the screen, and it is natural that the B.M.A. should express anxiety as to the effect the cortisone film may have on patients who may be undergoing treatment with the drug. But if manufacturing firms would issue their products in suitable form, and pharmacists would remove all trace of the name of the drug, there is no good reason why the doctor's patient should be aware of the nature of any prescribed treatment. So far as the film itself is concerned one can hardly imagine that its sole purpose is educational, despite the defence of the film company. Educational films are seldom money-spinners and as such are not as a rule in the film companies' line.

ULSTER PUBLIC ACCOUNTS COMMITTEE

Rising cost of pharmaceutical services

GIVING evidence to the Northern Ireland Government's Select Committee on Public Accounts, recently, Mr. T. ELWOOD (Comptroller and Auditor General) said that at first glance it might appear that the cost of the pharmaceutical services was decreasing. The totals for the year 1954-55 and for the year 1953-54 suggested a decrease but the opposite was the case. A simple comparison of those figures was misleading because the figure for 1953-54 included payments of arrears to doctors and chemists, and also £22,000 due for payment in 1954– 55 had been carried forward into the present financial year so that the General Health Services Board might keep within its income

Increase in Prescriptions

He said that from the figures it would be seen that the number of prescriptions during the year increased by over 400,000. The average cost of each prescription was about 4s. 6d. It was, therefore, easy to see that the cost of the service had in fact gone up by £94,000. That great and increasing cost was naturally a matter of concern to the Ministry of Health and Local Government General Health Services Board. Information had been extracted to give the average cost of drugs prescribed by individual doctors according to the number of patients on their lists. The results showed some surprising varia-tions. In the period for which figures were extracted, that was to October 1954, the average per month in Belfast varied from tenpence to 3s. 10d. per varied from tenpence to 3s, 10d, per patient; in co. Antrim it was seven-pence-halfpenny to 2s. 7d.; Armagh, 1s, 6½d. to 4s. 6d.; co. Down, eightpence-halfpenny to 4s. 3½d.; Fermanagh, tenpence-halfpenny to 2s. 4d.; Londonderry, 1s. 1d. to 3s. 1½d., and in Tyrone 1s. to 3s. 2d. Those figures related altogether to the larger panels. MR, L. G. P. Freer (secretary, Ministry of Health) said there was a definite

istry of Health) said there was a definite upward trend comparing March 1954 with March 1955. There was an increase there of from 388,000 to 443,000 in the number of forms. There was a most surprising increase from 289,000 in August 1954 to 322,000 in August 1955.

Mr. Freer said that it might be that something would have to be done in the education of doctors; as students, they might have to be taught to have some regard for the cost of the medicines they prescribed.

MR. S. T. IRWIN, M.P., said that one cause of the increased cost was that cause of the Increased cost was that new drugs were all very expensive, and they were more used. A person having a cold now probably got Terramycin when formerly he would have stayed a day in bed. Another cause was the greater use of proprietary medicines for the simple recent that they were nicely the simple reason that they were nicely put up, convenient for the patient and easily prescribed by the doctor. "There are, of course," he said, "doctors who prescribe proprietary medicines too often and in too great an amount and so the cost goes up." But he also thought that the actual dispensing fee

had been increased in recent times. MR. FREER: Not since the last increase in Scotland. MR. IRWIN: Well within the last two or three years? MR. Freer: Yes.

PROFESSOR LLOYD-DODD, M.P., asked if there was a greater tendency for doctors with large panels to prescribe proprietary medicines than doctors with small panels.

Mr. Freer: I do not think I could answer that off-hand.

PROFESSOR LLOYD-DODD: The point I had in mind was whether a man with an exceedingly large practice used pro-prietary medicines to a greater extent because of speed and convenience.

Mr. Freer said that doctors definitely preferred and gave reasons for preferring drugs made up in a particular way by a manufacturer.

MR. IRWIN said that the Board was alive to the whole problem and was doing everything in its power to dimin-

ish the cost of prescribing.

MR. P. J. GORMLEY, M.P.: Some doctors do their own dispensing still. Is that cheaper than prescribing? MR. IRWIN: Dearer, I think. MR. FREER said the number of dispensing doctors was falling off fairly rapidly. Whenever a new chemist's shop was opened in a

village or town the doctor usually ceased to dispense. The doctor was paid in either of two ways: on the basis of prescriptions, in the same way as the chemist; or at an annual amount for each of his dispensing patients. If the latter method was adopted, the cost was less than the average cost for prescribing patients. He said that between April 1950 and April 1955 the number of patients on dispensing doctors' lists had fallen from 153,000 to 101,000. That was a very substantial drop and the total was still falling.

Dispensing Doctor Not Wanted

MR. IRWIN said that the Board was anxious to get rid of the dispensing doctor. They were only retained where there was no pharmacy. MR. GORMLEY said that he could give specific instances where there was a chemist's shop within 200 yards of a dispensing doctor. One patient had brought it to his notice.
"He said his reason for leaving the doctor was that he got better medicine if he took his prescription to the chemist," he added. Mr. Brian Faulkner, M.P.: Does the Board, generally speaking, allow doctors to dispense if there is a chemist in the district? Mr. Freer said that it depended on the distance between the patient and the chemistnot the distance from the doctor. The Board was anxious to limit those dispensing doctors as far as possible.

EXECUTIVE COUNCILS' ASSOCIATION

Pharmaceutical topics in management committee's report

COMMENTS about the date of publication of new editions of the Drug Tariff are made in the report for 1955-56 of the management committee of the Executive Councils' Association (England).

The report records that the City of Lincoln Executive Council asked the committee to secure publication of future editions of the Drug Tariff by a date not later than the date from which the new prices operated. The secretary of the National Pharmaceutical Union submitted to the committee a detailed list of the operations carried out by the Central Checking Bureau and by the Ministry of Health before the Drug Tariff is ready to be set up in print, and indicated that it was physically impossible to bring forward the date of issue so long as the complete Drug Tariff and the Quarterly List of Amendments include prices ruling during the month to which the Tariff and the Lists relate. The Central N.H.S. (Chemist Contractors) Committee, in the interests of contractors generally, refused to agree that any prices for drugs and galenicals other than those current at the time when the prescriptions were dispensed should be used for pricing in the bureaux.

The Ministry of Health, replying to the Association on questions of disciplinary action over errors made in dispensing tablets, etc., stated that the chemist contractor alone was responsible for what he supplied. It was open to him to take action against a manufacturer or supplier of faulty goods, and the Minister could not allow the chemist to abrogate responsibility for what he supplied.

Answering questions on an exceptional number of resignations from the Leicester Executive Council's list of chemist contractors, the secretary of the National Pharmaceutical Union wrote stating that none of the pharmacies that had withdrawn from the contract in Leicester had remained open to the public as a pharmacy. Most of the closures had been caused by economic considerations, in that qualified staffs could not be secured, even at current market rates; while exorbitant rates to tempt pharmacists from their present appointments could not be afforded. Difficulties in renewing leases were another factor. The N.P.U. secretary thought that the peak in the number of pharmacies had now been passed, and that the number would continue to fall. Those eliminated would be mainly the smaller pharmacies owned by elderly men, many of whom would almost certainly have no alternative on retiring but to close down. Purchasers for the smaller businesses were unlikely to be forthcoming since it was well known that many were not producing for the proprietor (often working single-handed) an income that was anything approaching the salary a pharmacist could command as an employee.

N.H.S. STATISTICS

In Warrington during the year ended March 31, pharmaceutical services cost £115,831, compared with £111,492 the previous year. The total cost of the Health Service was £268,906, an increase of more than £14,000 compared with the previous year.

SYMPOSIUM ON AGEING

Medical and biological aspects of problem

THERE were grounds for believing that in civilised populations there was a relative dietary deficiency of essential fatty acids.

Nutrition and Ageing

That was stated by Dr. H. M. SINCLAIR (Oxford University) in a paper on "Nutrition and Ageing" given at a symposium on "The Biology of Ageing" held in London on September 27 and 28 by the Institute of Biology.

Those essential fatty acids, said Dr. Sinclair, were not only linoleic: C2 and C22-poly-unsaturated acids occurred abundantly in the glycerophosphatides of liver and brain and could be formed from linoleic in the presence of vitamin B₆ by addition of acetate followed by dehydrogenation. Vitamin E protected the acids from oxidation. much of the vitamin E in the diet was much of the vitamin E in the diet was destroyed by the so-called flour improvers; and the content of vitamin B_{θ} , already not high, would decrease considerably at the end of September when the bread subsidy ended. The essential fatty acids were the cis isomers. They were easily destroyed by oxidation, hydrogenation and even by conjugation of the double bonds as by ultra-violet light. The "unnatural" (all trans or cis-trans) isomers and isomers with conjugated double bonds acted in the body as antagonists. "Unnatural" was not an ideal term because cow's milk and butter contained almost none of the required form of linoleic acid and a large amount of cis-trans linoleic; cod-liver oil contained no ordinary linoleic acid. That might be yet another reason for thinking twice about pouring milk down the throats of children. Deficiency of essential fatty acids caused by consumption of diets low in those and containing the "unnatural" isomers produced disorders. Essential fatty acids occurred in the body in cholesterol esters, in batyl alcohol, in glycerophosphatides (particularly ethanolamine phosphatide) and in cardialipin (where linoleic acid represented five-sixths of the total fatty acids).

absence of the essential fatty acids they were replaced by oleic acid or saturated fatty acids synthesised in the body; that might also occur if there was a relative excess of saturated fatty acids as perhaps on diets high in fat or carbohydrate. The essential fatty acids could also be replaced by unusual highly unsaturated fatty acids if those were present in a relative excess. unusual compounds so formed did not function properly in the body and therefore could give rise to degenerative disease. In coronary thrombosis the atheroma might be caused by deposition of an abnormal cholesterol ester, and the increased coagulability of the blood might be caused by a raised concentration of ethanolamine phosphatide which was known normally to contain an unusually unsaturated fatty acid which had been shown to increase the coagulability of blood. Other degenerative diseases of senescence might similarly be caused by deficiency of essential acids. Why there was little natural linoleic acid in milk was not known but perhaps bacteria in the lumen converted it into a more stable form. The unsaturated fatty acids were required for cell membranes. Polymerised with protein they formed the "bricks" of which the membranes consisted. If the cells were built with the wrong type of bricks then trouble must ensue.

Discussing nutrition before matura-tion, Dr. Sinclair pointed out that maturation was commonly taken to be the reaching of maximum length by the organism. It could be taken to mean the reaching of ability to reproduce, or the menarche. In general, undernourishment (deficiency ments) delayed maturation and over-nourishment hastened it. The mean nourishment hastened it. The mean adult length in Britain had not increased during the past century but adult length was now reached at a mean age of five years less than it was a hundred years ago. In shortening the period that man took to reach maturity (i.e., ability to reproduce) by overfeedchildren might be being harmed ing, children might be being harmed and their lives shortened. More thought should be given to school milk. practice of giving children aureomycin and vitamin B₁₂ to encourage growth might be very undesirable. Little was known about the effects of deficiency or excess of nutrients before maturation upon senescence. That was a large field in which research was needed. One of the greatest triumphs of Public Health had been the improved health and nutrition of children. But perhaps the pendulum had swung too far.

Overnourishment after Maturation

There was good evidence that overnourishment after maturation increased the incidence of certain degenerative diseases. It was known from ancient times that fat men die earlier. It would probably surprise most people to know that the chances of dying of cancer of the lung if one smoked over twentyfive cigarettes daily were smaller than the mortality risk from being a stone over-weight. It was probable, said Dr. Sinclair, that skin calipers would replace bathroom scales in estimating fat. Height and weight told nothing.

Dr. Sinclair was questioned upon the apparent paradox of the fact that girls reached puberty earlier than boys but reached their graves later, and about the increase in coronary thrombosis since 1917. How had the diet prior to 1917 contained a higher proportion of unsaturated fatty acids? Dr. Sinclair replied that males required fatty acids in much greater quantities than females; seven or eight times as much. It was difficult to introduce a deficiency in females. To the second question he replied that there had been less processing of food prior to 1917 and less destruction of fatty acids and of the vitamin E that protected them.

The first paper of the symposium

The first paper of the symposium was given by the president of the Royal Society (Sir Cyril Hinshelwood), who discussed the ageing of bacteria. A large population of unicellular organ-

isms declined exponentially, he said. Such a law implied that the chance of death in a given short time interval for any cell was independent of its pre-vious history. The well-known "tarvious history. The well-known "tar-get" theory was that some sensitive centre in the cell received a random hit from a molecule of a toxic agent or from a quantum of high energy radiation, and that the effect was lethal. Though it was just possible that an intensely localised destructive effect might be propagated by a chain reaction through a sufficient volume of the cell to disturb its economy, the "target" theory, at any rate as regards chemical agents, was inherently improbable. Nevertheless, the exponential law was sometimes rather a good approximation and a possible interpretation of it was that the internal economy of a non-dividing cell still involved lively though imperfectly co-When ordinated metabolic changes. different cell constituents and associated enzyme activities waxed and waned from multiple causes and with independent frequencies there would exist a certain probability that different functions (amounts and activities), would pass within a given short interval of time through a minimum value together. That probability was independent of the previous history of the cell. If that condition led to the death of the cell then the chance of death in a given interval of time was more or less independent of the previous his-tory of the cell. The condition for exponential law was then fulfilled.

A paper on "Ageing and Metabolism" was presented in the absence. the approximate applicability of the

was presented in the absence of its author, Professor F. Bourlière, Paris, by Dr. Alex Comfort (department of zoology, University College, London). Professor Bourlière said in his paper that the influence on ageing processes of such factors as the "of living," the "tempo of life" and even the growth rate might well find their common denominator in a more or less direct action on metabolic rate. Most organisms seemed unable to transform more than a certain fixed quantity of energy during their specific lifetime and the rate of that energy turnover appeared to determine the rate of ageing. If such a correlation was confirmed by more extensive experiments and observations it would remain to understand its underlying biochemical and biophysical causes. Some recent experiments showing that enzyme molecules had a definite lifespan already suggested new approaches to that highly complex problem.

Endocrinology

DR. G. I. M. SWYER (University College Hospital, London) suggested that though the simple notion of certain pioneer endocrinologists that adequate gonad replacement should result in rejuvenation had not received more than minimal support from experimental data, it still seemed possible that more complete steroid replacement might help in preventing at least some of the general effects of ageing.

LEGAL REPORTS

Prescriptions Altered

AT Stratford magistrates' court, on September 19, Robert Munro Runciman, formerly a manager of the Ilford dcpôt of the Dr. Scholl organisation was fined a total of £48 and a woman assistant a total of £25 on being convicted of altering prescriptions for surgical stockings to greater amounts and selling the extra pairs for cash.—At Birkenhead magistrates' court, on September 21, Charles Henry Montgomery, Woodchurch, was fined £10 after admitting an attempt to obtain, by false pretences, 100 dextroamphetamine tablets by altering 60 to 160 on a National Health Service prescription. When Montgomery handed in the prescription at a chemist's shop at Upton, the pharmacist thought the quantity large and rang up the prescriber, who confirmed his suspicions that the prescription had been altered.

An Appeal Fails

An action brought by a woman against Max Factor Hollywood & London (Sales), Ltd., Bond Street, London, W.1, alleging that chemicals in one of the company's lipsticks had caused dermatitis, failed recently when the sheriff principal of Renfrew and Argyll upheld the decision of Sheriff Young, Paisley, in dismissing the original action. In his judgment Sheriff Young had stated that the claimant, Mrs. Kidd, 9 Stevenson Street, Paisley, had been using, for about three years prior to purchasing a particular lipstick on October 15, 1954, a lipstick of exactly the same description, but at that time she had suffered no harm. "In those circumstances," stated the sheriff, "it is her duty to specify what it was in that particular stick that she blamed." Upholding the sheriff's judgment, the sheriff principal said that in his opinion a case of that type should only go to proof upon precise and specific averments. For this reason the appeal failed.

"Petty" Complaint Dismissed

THE complaints of a pharmacist against Nottingham Co-operative Chemists, Ltd., by whom he was employed as a holiday relief, were described as "petty and unjustified" by the judge (Mr. R. S. Nicklin) at Nottingham county court on September 19. William Henry Harris, Portland Road, Worthing, was claiming £31 19s. 6d. for alleged wrongful dismissal. The claim was Mr. Harris dismissed, with costs. complained that accommodation found for him by the firm was unsuitable, that alternative accommodation could not be provided, and that his travelling expenses were not met. The judge also dismissed a fourth complaint by Mr. Harris that he had been appointed to a small branch shop where he was under the supervision of a superintendent chemist; he had expected to be made chemist in charge. For the company, the claim was contested "as a matter of principle." When questioned about £24 17s. 6d., which he was alleged to have taken from the till of his shop before leaving, Mr. Harris said that he took the money thinking he was entitled to another week's pay.

He paid it back later. Mr. Harris agreed that he was paid £20 a week, plus £4 7s. 6d. for accommodation and mid-day meals. He was allowed 1s. 4d. a day travelling expenses. He maintained that his employment finished on May 19. The firm declared that it ended a week earlier.

COMPANY NEWS

Previous year's figures in parentheses

BUTLER & CRISPE, LTD.—Mr. W. Eastlake (director) has retired after nearly fifty-two years' service with the company.

CHADWICK-LATZ, LTD. — Mr. W. John Merrick, M.P.S., has been appointed joint managing director of the company.

THOMAS HEDLEY & CO., LTD.—Consolidated profits for year ended June 30 are £1,359,000 (£514,000) less U.K. taxation, £616,000 (£85,000).

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Consolidated turnover for the first half of 1956 totalled £221 millions (£206 millions). The estimated net income after depreciation but before tax, for the first half was £20,325,000 (£20,855,000), whilst the estimated tax charge is £9,915,000 (£8,880,000). The latter charge, it is (£8,880,000). The latter charge, it is pointed out, is based on current legislation and so reflects the increases in profits tax in the October 1955, and April 1956, Budgets and also the replacement of investment allowances by initial allowances. New plants are in production and volume and value of sales have risen, but increased costs have not been matched by increased selling prices and there has been a fall in the holding price of certain non-ferrous metals, the directors state. The policy of stable prices, which the company recently announced, coupled with in-creased costs, will continue to have their effect on profit margins. There are indications that the turnover for the second half of 1956 may somewhat exceed that for the second half of 1955. An unchanged dividend of 4 per cent, is declared on the Ordinary stock,

GLAXO LABORATORIES, LTD.— Subject to completion of audit, the group profits for the year ended June 30 amount to £1,765,000 (£1,556,000) after providing for all charges including £1,441,000 (£1,453,000) for taxation. The proportion of the profits attributable to outside shareholders is £25,000). Group profits include of previous years £16,000). The directors propose to (£11,000).profits (£75,000). place to general capital reserve, including obsolescence and replacement, £1,000,000 (£500,000); revenue reserves, general, nil (£500,000); exchange reserve, £100,000 (£100,000). Superannuation and widows' pensions takes £100,000 (£100,000). A final dividend of $7\frac{3}{4}$ per cent. on the Ordinary stock, making 14 per cent. for the year (against 12½ per cent.) is recommended. The directors also announce that it is proposed to increase the authorised capital to £10 millions and, subject to the consent of the Capital Issues Committee, to capitalise Issues Committee, to capitalise £1,592,700 of the capital reserves of the company, and to issue to the Ordinary stockholders one share of 10s, for every two 10s, units of stock now held by them,

New Companies

P.C. = Private Company; R.O. = Registered Office

J. M. DRABBLE, LTD. (P.C.).—Capital £5,000. To acquire the business of a chemist and druggist now carried on at 123 Wellgate, Rotherham, Directors: Olive M. Drabble and Sidney Johnson, M.P.S.

WENDELL NICHOLAS (MUMBLES), LTD. (P.C.).—Capital £3,000. To carry on the business of manufacturing and general chemists, etc. Directors: Wendell Nicholas, M.P.S., and Alan M. Murphy, M.P.S. R.O.: 12 Newton Road, Mumbles, Swansea.

GRANITE ROCK PHARMACY, LTD. (P.C.).—Capital £2,000. To carry on the business of retail, wholesale and manufacturing chemists and druggists, etc. Directors: Lawson M. Ward and Walker Rothwell, M.P.S. R.O.: 6 Peacock Lane, Leicester.

PARK CHEMISTS (WHITLEY BAY), LTD. (P.C.).—Capital £500. To carry on the business of manufacturing and general chemists, etc. Directors: Stanley T. Swaddle and Patricia D. Swaddle. R.O.: 1 Park Road, Whitley Bay.

BALLBROOK SURGICAL INSTRUMENT CO., LTD. (P.C.).—Capital £100. To acquire merchandise, etc. from Heller Bros. or their nominees only, and to deal with the same. Directors: Otto Beer and Jack Hood. R.O.: 11 Albert Square, Manchester, 2.

McALPINE CHEMICAL CO., LTD. (P.C.).—Capital £1,000. To carry on the business of industrial chemists, metallurgists, etc. Directors: Robert R. McAlpine and Mary R. McAlpine. R.O.: 33 Heath Close Road, Dartford, Kent.

CONSOLIDATED BORAX INC. — Capital \$100,000. Registered in the State of Delaware, U.S.A. British address: Borax House, Carlisle Place, London, S.W.1. Directors: Frederick A. Lesser, Norman C. Pearson, Richard B. Snagge, James D. Tennant, James M. Gerstley and Richard F. Steel.

BRADFORD CHEMICAL CO., LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in dyestuffs, chemicals, gases, drugs, etc. Subscribers: John K. Read, Irene Spencer, Allied Colloids (Bradford), Ltd., and Badische Anilin-Und Soda-Fabrick, A.G.

BUSINESS CHANGES

THE Wam Organisation (Speedwork Systems, Ltd.), has removed to Wamprint Works, 129 Kensal Road, London, W.10 (telephone: Lad 7111).

MR. GLYNNE WILLIAMS, M.P.S., has acquired the pharmacy of Miss W. A. Thomas, M.I.S., 67 High Street, Pwllheli, Caerns.

WARRICK BROS., LTD., and ROBERT GIBSON & SONS, LTD., have formed a joint selling organisation. In future orders for both companies will be dealt with at Perkins Street, Coventry (telephone: Coventry 41356).

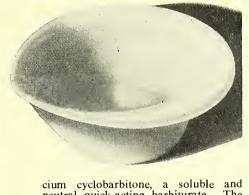
NEW PRODUCTS AND PACKS

In New Large Size.—Imperial Chemical (Pharmaceuticals), Ltd., Fulshaw Hall, Wilmslow, Manchester, have added a new 1,000-pack to their range of Cevanol benactyzine hydrochloride tablets, 1 mgm.

New Polythene Products. — E. K. Cole, Ltd., Southend-on-Sea, Essex, are marketing a new plastic measuring jug that withstands the toughest treatment without breaking. The jug (illustrated below) is moulded in a new durable and hard polythene, and re-

Portman Square, London, W.1, have introduced a new one-lather cream shampoo, supplementary to the original clear Sunsilk shampoo. The Sunsilk cream shampoo is particularly suitable for dry hair and is available in sachet or five-shampoo tubes.

Soluble and Neutral Barbiturate. — A new hypnotic preparation, Rapidol, is being introduced by Medo Chemicals, Ltd., 178 Pentonville Road, London, N.1. Rapidol contains in each white, scored, flat tablet 0.2 gm. (gr. 3) cal-



mains rigid even when filled with boiling liquid. The jug is graded in British and U.S. fl. oz., and in pints and litres. Its capacity is over a quart, and its size $7\frac{1}{4}$ in. high x $4\frac{1}{2}$ in. top diameter. Also marketed (right-hand illustration) is a new Ecko plastic "adult chamber" in acid-resistant polythene. The chamber has no handle, but is easy to carry because of its broad rim, which also adds comfort in use; the chamber is tapered to facilitate emptying.

Polythene jug and

chamber (E. K. Cole,

Ltd.).

Aerosol Decongestant. — Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts, are introducing Nazeaire, an aerosol preparation for the relief of nasal congestion associated with common colds, mucosal catarrh and similar conditions.

Not a Part of the Pack.—The small reindeer and sleigh shown in our illustration of Blonde Dubonnet lipstick (see C. & D., September 22, p. 325) is not part of the packaging of the product but a method of display suggested by the makers, Richard Hudnut, Ltd., Power Road, London, W.4.

Electric Hair Clippers.—Pifco, Ltd., Watling Street, Manchester, are now marketing electric home hair clippers. Two different detachable spacing-combs are provided, allowing the cutting and thinning of top hair, as well as the cleaning up of back and sides.

Eyebrow Pencil. — Silmor Distributing Co., 34 Caledonian Road, King's Cross, London, N.1, are marketing a new product, the Andre Philippe perfumed eyebrow pencil, available in black, brown, light brown with a protector cap in an assortment of colours.

One-Lather Cream Shampoo. — D & W. Gibbs, Ltd., Hesketh House, cium cyclobarbitone, a soluble and neutral quick-acting barbiturate. The effect lasts three to six hours and the excretion of the drug is swift. Packings are twenty-five, 100 and 250 tablets.

Flavoured Cough Linctus.—S. Maw Son & Sons, Ltd., Aldersgate House, Barnet, Herts, announce the addition of Tancolin (tangerine-flavoured cough linctus) to their range of ethical products. The linctus is specifically formulated for children and is indicated for treatment of cough associated with the common cold, bronchospasm, bronchitis and inflammatory and catarrhal affections of the respiratory tract. Active ingredients are: Theophylline, 0.33 per cent.; ethylmorphine hydrochloride, 0.025 per cent.; sodium antimonyl tar-

trate, 0.00125 per cent.; ascorbic acid, 0.25 per cent.; citric acid, 1.0 per cent.; sodium citrate, 2.0 per cent.; glycerin, 20.8 per cent. Tancolin is freely prescribable on EC10's. It is packed in 3-oz. bottle.

A New Cockroach Repellent. — The name M.G.K. repellent II has been given by Phillips Petroleum Co., Oklahoma, U.S.A., to their brand of 2,3,4,5-bis (\(\Delta \) 2-butylene)-tetrahydrofurfural, which has been introduced as an insect repellent, especially to counteract the menace of cockroaches. Used with pyrethrum insecticide, the compound is claimed not only to disperse the insects but also to kill a high percentage of those venturing near the treated area, M.G.K. repellent is marketed in Great Britain by Joseph Weil & Son, Ltd., Friars House, 39 New Broad Street, London, E.C.2.

New Steroid Formulations.—Merck-Sharp & Dohme, Ltd., Hoddesdon, Herts, have introduced two new specialities, Hydroptic sterile ophthalmic suspension containing 5 mgm. of hydrocortisone acetate and 3.5 mgm. neomycin sulphate per mil in non-irritating buffer vehicle. It combines the anti-inflammatory activity of Hydrocortone acetate with the antimicrobial activity of neomycin. Hydroptic ophthalmic suspension represents a doubly effective approach to the prevention and treatment of ocular disease. It is supplied in specially designed 5-mil applicators. The second new introduction is Hydrodyne tablets each containing 2.5 mgm. of Hydrocortone (hydrocortisone) and 0.3 gm. of acetyl-salicylic acid. The tablets are for the treatment of chronic conditions such as rheumatoid arthritis and may also be used where low-dosage steroid therapy is required and additional anti-rheumatic or analgesic effect is desirable. Hydrodyne is supplied in bottle of 100 (pink scored) tablets.

PHOTOGRAPHIC NOTES

Prices Increased. — Owing to increased costs, Agfa, Ltd., Deer Park Road, Wimbledon Factory Estate, London, S.W.19, have increased the prices of Agfa Lupex, Brovira and Portriga-Rapid papers.

Precision Equipment. — North Staffs Photographic Services, Bell's Yard, Newcastle, Staffs, are distributing a range of precision enlargers, projectors, etc., manufactured by Durst,, Inc., Bolzano, South Tyrol, Italy.

Colour-transparency Projector.—The Cine and Optical division of Rank Precision Industries, Ltd., 37 Mortimer Street, London, W.1, market a projector, the Hi-Lyte 300, for projecting 2 x 2 in. colour transparencies. The projector is fitted with a high speed motor-driven fan and 300-watt lamp, and has precision focusing.

Additions to Capless Flash-bulb Range. — Philips Electrical, Ltd., Century House, Shaftesbury Avenue, London, W.C.2, are, on October 15, making two additions to their range of Photoflux capless flash-bulbs. The type PF5

has a light output of 18,000 lumenseconds, making it particularly suitable for snapshotting large groups. The type PF5/97 is blue-coated and intended for use with colour.

A New Non-bellows Camera.—Now available in the United Kingdom from Agfa, Ltd., Deer Park Road, Wimbledon Factory Estate, London, S.W.19, is the Agfa Isola camera, a non-bellows instrument with lens and shutter on tubular mount. Spring pressure brings the camera into working position, the tubular mount receding into the body when not in use; the shutter release remains locked and inoperable whilst the tubular mount is in the closed position. The Isola takes twelve exposures on 120 roll film. It has a f6 3/75-mm. Agfa Agnar coated colour-corrected anastigmat lens, shutter with 1/30, 1/100 and B speeds, body shutter-release, optical view-finder, double-exposure-prevention device, and synchro flash-contact. An ever-ready plastic case with reinforced front panel is available. The Isola was demonstrated on commercial television recently.

PHARMACY IN ISRAEL

Story told of its uphill struggle

DR. J. Kohlberg (president, Israel Pharmaceutical Association) addressed a public meeting in London on September 24 on "The Development of Pharmacy in Israel."

He said that the history of pharmacy in former Palestine was the story of an uphill struggle on the part of pharmacists for the realisation of high pharmaceutical standards. Before 1917, under Turkish rule, there were no regulations. Practically anyone could operate a pharmacy. No academic qualifications were required; it was necessary only to obtain premises and hang up a sign.

Entrance of British Forces

With the entrance of the British forces in 1917 things began to improve. The military administration accepted the co-operation of the profession, and as a result, the Palestine Pharmaceutical Association was formed. Among the first regulations made was the stipulation that every pharmacy should have at least one qualified pharmacist on its staff and that the premises should comprise at least 60 sq. metres and be divided into three separate departments—dispensary, laboratory and store. It remained for the Association to establish for its members, professional standards, such as regulation of dispensing fees, opening and closing hours, employees' salaries, over - the - counter prices, rota, etc.

Palestine pharmaceutical legislation was modelled on the British system. In Great Britain, however, there existed a strong Pharmaceutical Society, in which State powers were vested. The mandatory Government did not grant the same legislative and administrative powers to the Palestine Pharmaceutical Association. For example, in Palestine and now in Israel the Pharmaceutical register was with the Ministry of Health. About 400 pharmacists from many countries had arrived in Israel since May 1948, the date of the establishment of the State of Israel. A fund was established for granting long-term loans without interest and without special securities, to help the immigrant pharmacists.

The fact that over half of the population of Israel were members of the Kupat Holim—the sick fund belonging to the General Workers' Union (Histadrut)—curtailed the scope of private pharmacies. That sick fund organisation had its own hospitals, large central pharmacies and small local dispensaries. Often those hospitals and dispensaries did not employ any pharmacist and the Israel Pharmaceutcial Association strove to change those conditions and to prevent physicians and nurses from dispensing prescriptions. Today, the workers' sick fund employed more than 50 per cent, of the country's pharmacists. Agreement had also been reached so that every hospital had to employ an appropriate number of pharmacists.

Only the British and French Pharmacopæias were now official, but the

issue of a Hebrew pharmacopæia was being considered.

Ratio of profit was fixed by the Government for patent medicines (25 per cent.), and for compounded medicines and sundries by the Association. The average gross profit was between 30 and 35 per cent. Pharmacies opened at 8 a.m. and closed at 7 p.m., the majority closing for two hours at mid-



Dr. J. Kohlberg delivering his lecture.

day. On Saturdays and holidays, pharmacies were closed. Every pharmacy participated in a rota emergency service for nights and holidays. Closing hours were strictly enforced by the authorities.

The Israel Pharmaceutical Association's membership comprised all registered pharmacists in Israel, who numbered now about 800, including approximately 280 owners of pharmacies.

Taking into consideration that about 60 per cent. of the population got their remedies through the workers' sick-fund dispensaries, the private pharmacy served on the average, about 2,500 people.

Among the Association's demands had been that by law only a registered pharmacist should be allowed to open a pharmacy, that minimum distances between pharmacies should be fixed, that pharmacists in the Israeli army should have the same status as physicians in rank as well as pay—and there the Association was successful — and that army pharmaceutical stores, laboratories and dispensaries should be under supervision of a pharmacist. The Association was consulted regularly by the Ministry of Health through its pharmaceutical department on professional matters.

As early as 1946 the Pharmaceutical Association had taken the first steps

towards foundation of a school of pharmacy. The authorities of the Hebrew University to whom the case was presented did not feel that the time was ripe and, besides, the necessary funds were not available. To build the monetary foundations, every pharmacist was taxed with a certain sum according to his income, and in addition a special stamp of five mils (about one penny) was affixed to each prescription. That brought the sum of £P2,000 (£2,000 at that time), which was submitted to the authorities of the Hebrew University.

Hebrew University.

Those activities were interrupted in 1948 by the "war of liberation." But by 1949 it was seen that the school of pharmacy could be postponed no longer.

With the help of friends abroad, new faculties had been added in the University and it was seen that to establish a school of pharmacy there was no choice but to turn for help from friends in other countries.

In 1953, a retired American pharmacist donated £110,000 on the understanding that the Association would raise a further £125,000. The Association succeeded and in the Autumn of that year, the school was opened.

Curriculum

The pharmacy curriculum covered a period of four years. The first three terms were taken in the faculty of science, after which the students passed to the school of pharmacy for their professional training. During those three terms, they studied botany, zoology, physics, mathematics, inorganic and organic chemistry, Latin, English and statistics. In the school, studies were conducted in four departments: pharmaceutical chemistry, pharmacy, pharmacy, pharmacognosy and applied pharmacology. Anatomy, bacteriology and physiology were given within the framework of the school of medicine. After successfully, competing the cessfully cessfully completing the four-year course and passing all the final examfour-year inations, students must do practical training for six months in a pharmacy recognised by the University. A further period of six months' practical training was divided into two parts, taking place during the holidays between the second and third years of study and the third and fourth year. It had not yet been decided which degree would be conferred on graduates of the school-probably bachelor of pharmacy. Can-didates would automatically be granted licences to practise pharmacy in Israel. Pharmacists who completed their studies abroad got their registration without further formalities if they have completed a university course of pharmacy of at least three years.

Candidates for the first year, who must be holders of a high school diploma, must pass a competitive examination at the university, consisting of one paper in each of two subjects, chosen by the candidate from among eight, four of them being on scientific subjects, and four on humanistic. Those

receiving a minimum number of marks in the written examinations must present themselves to the selection committee for a personal interview and a free discussion.

Growth of School

For part of the means to supply the school with funds in the future, it seemed that the surest way was the formerly established but later abandoned, stamp. In accordance with circumstances, the stamp was now to be fifty mils (threepence) and it was to be affixed on every prescription compounded in the pharmacy. £175,000 (£15,000) has been raised by that means. Meanwhile, the school was developing normally, and every year ten to fifteen

students were added. In 1956, the fourth year, there would be about sixty students. In 1955 the budget of the school was £1150,000 (£30,000). A former maternity hospital was obtained to house the school. It was a fine building but had had to be adapted for its new purpose. That meant the installation in the laboratories of gas, electricity, compressed air, etc. For that the University advanced substantial sums, on the understanding that the money was returned in due course. The needs of the school increased each year. New equipment was needed, there was no library, the present teaching staff was insufficient. Moreover, the present building has been leased for only a limited time until the medi-

cal centre in Ein Karem (a suburb of Jerusalem) was erected. The school's part in the centre would cost more than could be subscribed by Israeli pharmacists alone.

It was for that reason that the authorities of the Hebrew University together with the Friends of the Hebrew University in Israel and the U.S. and the Israel Pharmaceutical Association had urged him to go to Europe and the U.S. and help to put the school on its feet.

the school on its feet.

In October 1953, a pharmaceutical group of Friends of the Hebrew University in Israel was founded in London. The joint secretaries are Drs. H. Brudney and M. Donbrow, 237 Baker Street, London, N.W.1.

SOUTH LONDON AND SURREY GOLFERS

Supper and awards at Shirley Park

PRIZES gained in competitions organised by the South London and Surrey Pharmacists' Golfing Society during the 1956 season were awarded at the annual supper of the Society at Shirley Park, Croydon, on September 28. The supper was the third, but the Society claims only two full seasons.

The award-winners were introduced by MR. J. L. WRATHALL, but received their trophies at the hands of the donor of each. Trophy donors, winner, representative competition and date are listed in that order:—

CUPAL PRIZE (Mr. A. H. Barnetson): George Philp. Shirley Park, March 28 (Stableford).
GEORGE WATT TANKARD (Mr. George Watt):
J. McKenzie. Purley Downs, April 18 (bogey).

(Winner for second year.)

Scotta Bowl (Mr. J. N. Whitelaw): J. D. Needham. Croham Hurst, May 16 (medal). 1955 replica: Jack Martin.

GEORGE JAMIESON PRIZE (Mr. George Jamieson):

Frank Jamieson. Mannings Heath, June 3 (bogey).

UCAL CHALLENGE CUP (Mr. Marsden Lewis):
David Spier. Langley Park, June 13 (Stableford).

F. WIDOCKS MEMORIAL TROPHY (Mr. John Widocks); W. J. Baldock. Woodcote Park, July 18 (bogey). 1955 replica: Tom Dolman.

COW & GATE TROPHY (Mr. N. W. Hutchings): Eric Foster. Woodcote Park, July 18 (junior division), Collected in his absence by Mr. Cecil Foster.

VERONA TROPHY (Mr. H. Vernon Powell); George Jamíeson. Wimbledon Park, August 8 (medal). 1955 replica: G. J. Martín.

PRESIDENT'S PRIZE (Mr. George Johnson): George Johnson. Prize won by runner-up: Trevor Powell. Malden. September 15 (Stableford).

GEORGE WATT PRIZE (Mr. George Watt): C. J.
Martin. West Surrey, September 9 (bogey);
second prize donated and presented by Mr.
George Jamieson: Trevor Powell.
FOUNDERS' TROPHY (Mr. Alec Reary): Cecil

FOUNDERS' TROPHY (Mr. Alec Reary): Cecil Foster. Shirley Park, September 26 (bogey); 2: R. Swindells; 3: George Jamieson. 1955

replica: John Vose, Visitors' prizes: F. Baxter, Harvey and L. Upson.



KEEPING IT IN THE FAMILY: Mr. George Jamieson, donor of June 3 bogey competition prize, presents it to his son, Mr. Frank Jamieson, who was the winner.







Left: Mr. J. D. Needham receives the Scotia bowl from Mr. J. M. Whitelaw. Centre: Mr. Cecil Foster is handed the Founders' trophy by Mr. Alec Reary. Right: The vice-president (Mr. Arthur Cottam) proves there is no leak in the Verona cup, held by its winner, Mr. George Jamieson. Below: At supper, Left and right spur tables.





FIGURES IN THE PHARMACEUTICAL WORLD

In the political arena many a cause has been won less by the vociferous or forceful deployment of every available argument than by the judicious use of the right word at the right time to the right listener. That method has been consistently used by the secretary of the Proprietary Articles Trade Association, Mr. H. E. Chapman, in furthering the interests of the Association. It is a method he has employed with a success that may not be conspicuously obvious to every observer at the time of the encounter, but becomes impressive when the record of his achievements is brought under review. It is also a brought under review. It is also a method Mr. Chapman is superlatively equipped to apply, combining as he does a barrister's sense of the most telling point to stress, and the journalist's articulateness of expression, with the background of one who, like those he serves, had first of all a grounding in pharmacy and the drug trade.

Everything in Mr. Chapman's career seems to have contributed to create of him a specialist in the particular field with which his name is today principally associated. Just as, geographically, and war service apart, he has remained rooted to the environment in which, and close to the people among whom, he grew up, so in his professional activities he has kept closely to his own subject, gaining a mastery of its every aspect but leaving to others the concern for the other specialised fields

of a complicated trade.

He grew up in the country, his father being a Huntingdonshire merchant and miller who, at the beginning of the century, moved to the neighbouring county of Bedfordshire (the county in which the son is now a county magistrate, though he lives just over the county boundary in Hertfordshire). Mr. H. E. Chapman's pharmaceutical apprenticeship was served in what was then the mainly agricultural and horticultural chemists' business of Dubcrly & White, Luton. His four years' indentures completed, he went as junior to the Tunbridge he went as junior to the Tunbridge Wells, Kent, pharmacy of J. H. Bishop, with its good-class dispensing and homeopathic connection. His other pre-qualifying experience was gained in Harrogate (with H. G. Mitchell), London — at Hampstead with Walton & Curtis, in Victoria Street with the Army and Navy Stores — and back again in the Tunbridge Wells area at Southborough.

In January 1914 he qualified from the South of England College of Pharmacy, where he was pharmacy medallist. Later in the year he was in Army uniform, destined to serve with a Territorial Yeomanry field ambulance until 1919 in Gallipoli, Egypt, Palestine, France and Belgium.

With demobilisation came the real beginning of his life's work, or rather beginning of his life's work, or rather the basic training for it. A natural gift for writing had shown itself in 1915, when articles from his pen on "Home-pathic Pharmacy" and "Life with a Field Ambulance" were accepted for The Chemist and Druggist. Later contributions to the *Pharmaceutical Journal* so impressed its then editor (Mr.



43. Mr. H. E. CHAPMAN

J. P. Gilmour) that a position on the editorial staff of that paper was on offer to him so soon as a vacancy occurred.

In his first post-war employment, in the literary section of the advertising department of Burroughs Wellcome & Co., he became, as others have done, a professional literary craftsman. As events turned out, it was not many months before the *Pharmaceutical Jour*nal vacancy occurred, and he left B. W. & Co. to become associate editor of the Pharmaceutical Society's official organ.
Soon afterwards, the first Dangerous

Drugs Act and Regulations brought a new complication into the lives of pharmacists. To H. E. Chapman fell the task of answering readers' queries about

the narcotics legislation, and to compile, for publication by the Journal, its first "guide" to the Act and Regulations. Before long he was being equally relied upon by the Society's secretary (Sir William Glyn-Jones) for help in answering similar inquiries put by members to their headquarters' organisation. His competence to deal with them so His competence to deal with them so impressed the founder of the P.A.T.A. that when, in 1922, the assistant secretaryship of the Association fell vacant through the decision of Sir William's son Hildreth to make the law his career, Mr. Chapman was offered the post, which he accepted. Four years later, when Sir William relinquished the secretaryship of the Society and of the P.A.T.A. in order to be free to organise P.A.T.A. in order to be free to organise



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Problems of Ageing

AGEING as a social problem has been accentuated to some extent by the revolution in therapeutics that began some twenty years ago. The timely intervention of modern drugs has meant that more people are surviving longer, and coming within the orbit of diseases to which older people are particularly prone.

The increased use in comparative youth, therefore, of life-saving drugs can lead in later life to the greater use of drugs for the treatment of diseases of senescence. If for no other reason therefore than to curb the drug bill, the Public Health programme that has so successfully controlled the infectious diseases must be extended to meet the threat that diseases of age present.

But before that becomes possible a great deal of research is necessary as was only too plainly revealed by a conference that met recently to consider the biological, medical and other aspects of ageing (see p. 377).

It is noteworthy that pride of place among the papers presented was given to the contribution by Sir Cyril Hinshelwood on "Ageing in Bacteria." It was the study of bacteria that led to the present success against the diseases of youth and perhaps the closer study of the "internal economies" of those unicellular organisms may eventually provide the key to an understanding of the diseases of age.

Another of the contributors to the conference did well to sound a warning against a tendency to excess in the Public Health programme of child nutrition. It would be tragic if the price of "bonnier babies" was a shortened life span. The same contributor had something notable to say on the question of dietary deficiencies; but even there he has done little more than propound a puzzle to which the answer must be sought by ever-increasing research.

New Treatment for New Drugs?

Support for a suggestion put forward in these columns recently (C. & D., August 11, p. 141) that every new drug should, for a probationary period, be made subject to a "prescription only" requirement is voiced in an editorial in the October issue of the *Practitioner*. The editorial argues that it is obviously wrong that manufacturers should be able to release, for indiscriminate sale to the public, new and relatively untried drugs. It castigates as a particularly dangerous form of being wise after the event, the Government's stepping in and scheduling a drug only when fatalities or near-fatalities occur. The article goes on to urge as an obvious requirement, new

legislation whereby every new drug is available only on prescription until there is ample evidence to indicate that it is safe to allow it to be made freely available to the public. Such a measure, the article considers, is clearly necessary for the protection of the public, and would be acceptable to the leading pharmaceutical companies. It would also save pharmacists from the invidious task of deciding whether a particular product should be sold to a particular customer.

We believe that the misuse of modern drugs arising from their unregulated supply to the general public may well cast an entirely unmerited cloud over a medicament which, used under proper medical surveillance, would give entirely satisfactory results. The placing of those drugs under statutory control would in reality mean only legal recognition of a state of affairs already existing, for most drugs in question are today supplied on prescription anyway, and the over-the-counter sales are relatively marginal.

It can, of course, be argued that the public would be being denied access to the most modern remedies, and certainly no one wants to impose control for its own sake. But the hazard is real and in most cases after a suitable period the drug would become freely available. At present a drug may well be free for only a short time before some mishap takes it off the market for ever. In the long run the public would benefit. It is true that, as Keynes pointed out, in the long run we are all dead. But the short-term hazard in this case may also prove fatal.

A Dangerous Practice

OPINIONS can and do differ on the quantities of drugs that a doctor should prescribe at any one time. A member of a hospital management committee criticised at a recent meeting, the practice of supplying prednisone tablets in large quantities (see p. 374). Despite the high cost of that drug, it was alleged that as many as 500 tablets at a time were being prescribed by consultants. The suggestion was made that smaller quantities should originally be prescribed, and that general practitioners could then issue further tablets as required. That appears to us to be a matter of common sense. However, the secretary of the committee pointed out that patients were being warned of the expense and many were bringing back tablets they did not use. That seems to be not only putting the cart before the horse but encouraging a dangerous practice. There can be only one purpose in the hospital's mind in urging people to return unused tablets and that is so that they can be reissued at some future date; but the possibilities of dangerous error inherent in such custom are plain to the pharmacist. For that reason, apart from the questionable hygiene of the practice, it is to be hoped that it will not be pursued.

Injuries to Passers-by

SHOPKEEPERS generally are well aware of their obligation to render their premises reasonably safe for persons who are on the premises by invitation, expressed or implied, as, obviously, customers are.

While the obligation of the shopkeeper to his customer or to any other invitee is severe, even more severe is his obligation to persons passing-by in the street. Premises that are unsafe constitute a legal

nuisance. If any injury is, in consequence, sustained by anyone passing-by in the street, the occupier of the premises is liable. Thus in winter, when there is always a likelihood of a heavy fall of snow, the shopkeeper runs a special risk. An accumulation of snow on the roof may be a danger. Pieces of guttering or brickwork or slates may fall under the weight of snow pressing upon them. No part of the structure of a normal building in a good state of repair ought to fall down, but sometimes roofs and gutterings get neglected. Before the winter arrives steps should be taken to secure that those parts are sufficiently strong to bear any accumulation of snow that may be reasonably expected.

SHARE MOVEMENTS, July to September

BY A FINANCIAL CORRESPONDENT

USINESS and interest in the industrial department of the London Stock Exchange were on a smaller scale during the third quarter of 1956. The Suez Canal news caused a sharp reaction in the more speculative securities, and also in those most directly affected by its operation, which was followed by a partial recovery and yet another reaction. Market comment was mostly on the lines that hesitant and uncertain conditions will mainly prevail pending definite news of the final outcome of the discussions, and also until some clarification emerges regarding the conflict between the Government and the Trades Unions. Drug trade company shares, however, again made a good showing, for a number of them moved against the general trend by closing higher, and such falls that were recorded were not so pronounced as some of those evident in other sections.

In the highest-priced group, Borax (Holdings) £1 Deferred again provided one of the best features of the entire industrial department by closing about 54s. better

Name of Company	1956			
£1 units unless otherwise stated	Нібн	Low	LATEST	
	s. d.	s. d.	s. d.	
Albright & Wilson, 5s	21 9	17 0	$18 \ 7\frac{1}{2}$	
Allen & Hanburys	54 3	51 9	53 6	
Do, 7% Prefd. Ord	22 0	19 6	20 0	
Ashe Chemicals, 1s	1 8	1 0	1 0	
Aspro-Nicholas, 5s	19 10½	14 3	15 0	
Beecham Group, 3s	$22 \ 10\frac{1}{2}$	17 3	19 6	
Boots Pure Drug, 5s	18 10½	13 9	14 3	
Boots (Eastern) 6% Cum.				
Prefd. A Do. (Western) 7% Prefd.	21 9	19 0	20 0	
Do. (Western) 7% Prefd.				
Ord. A	23 0	21 6	22 6	
Borax (Holdings) Defd	315 0	$156\ 10\frac{1}{2}$	271 3	
British Drug Houses, 5s	15 6	11 9	13 3	
Cussons, Sons & Co., 2s	7 0	5 0	5 9	
Dubarry Perfumery, 1s	1 0	6	101	
Dufay, 2s	1 10½	5 4	1 93	
Evans Medical Supplies, 5s	$7.10\frac{1}{2}$	5 9	5 101	
Gee, Arnold, M., 1s	$21\frac{1}{2}$	1 8	$\frac{1}{30} \frac{10\frac{1}{2}}{30}$	
Glaxo Laboratories, 10s	34 0	$\frac{26}{11}$		
Do. 8% Prefd. Ord., 10s	14 6 19 0	11 9 14 6	12 3 16 3	
Greeff Chemical Holdings, 5s.		8 6	8 9	
Howards & Sons			12 9	
Ilford, 5s	15 7½ 30 3	$\begin{array}{c cccc} & 11 & 4\frac{1}{2} \\ & 22 & 9 \\ \end{array}$	23 9	
Monsanto Chemicals, 5s	44 6	34 6	42 3	
Reckitt & Colman Holdings	15 9	12 3	14 0	
Sangers, 5s Savory & Moore $5\frac{1}{2}$ % Red.	13 9	12 3	14 0	
Cum. Pref	17 41	15 6	15 9	
Southalls (Birmingham), 5s	$\begin{bmatrix} 17 & 4\frac{7}{2} \\ 9 & 3 \end{bmatrix}$	6 0	7 41	
Taylors (Cash Chemists), Lon-	9 3	0 0	7 72	
don 6% Cum. Pref	20 0	17 3	18 9	
Do. (Cash Chemists) Trust	20 0	17 5	10	
6% Cum. Prefd	19 6	18 0	18 4½	
Whites (Timothy) & Taylors,	19 0	10 0	10 42	
5s	28 71	21 101	25 3	
Do. 7½% Prefd	25 3	$\frac{21}{22} \frac{10^{2}}{7\frac{1}{2}}$	23 0	
Yardley & Co., 4s	32 0	$\frac{22}{26} \cdot 10^{\frac{2}{3}}$	31 10 1	
Do. A, 4s,	31 3	24 0	31 0	
Do. $4\frac{1}{2}\%$ Prefd	16 41	14 3	14 6	
Do. 5½% Prefd	19 3	16 73	17 0	

at 271s. 3d., after having been transferred up to the new high level of 315s. Elsewhere, Glaxo Laboratories 10s. finished about 3s. better at 30s. 3d.

Reckitt & Colman Holdings £1 Ordinary were again the centre of regular business and inquiry and closed unaltered at 42s. 3d., after having been transferred up to 44s. 1½d. in the meantime. Trading and interest every business day were also evident for Monsanto Chemicals 5s. Ordinary which closed about sevenpence-halfpenny lower at 23s. 9d.

Boots Pure Drug 5s, Ordinary were also a fairly marketable security and closed lower at 14s. 3d.

Yardley & Co. 4s. Ordinary finished without quotable change at 31s. 10½d. thus retaining their 6s. 6d. gain of the second quarter of the year. The 4s. A Ordinary class of the same company finished the same at 31s.

In the lowest-priced section, a good feature was provided by Dufay 2s. Ordinary which closed sevenpence-halfpenny better at 1s. 9³/₄d. Dubarry Perfumery 1s. Ordinary similarly closed the turn harder at tenpence-halfpenny, after having been dealt in up to one shilling.

In the Preference share section, most moves were against holders. Down by ninepence were Savory & Moore £1 5½ per cent.'s which closed at 15s. 9d. and Timothy Whites & Taylors £1 $7\frac{1}{2}$ per cent.'s at 23s. Some resistance to the general trend was evident for Allen & Hanburys £1 7 per cent. Preferred Ordinary which were valued without quotable change at 20s. Glaxo Laboratories 10s. 8 per cent. Preferred Ordinary finished 1s. 3d. down at 12s. 3d.

ECHOES OF THE PAST OL. BUXI

From The Marrow of Chirurgery (addition).
by James Cooke, Warwick, 1647
TAKE the wood of Box, and cut it in small peeces, after
put it in an earthen pot full of holes in the bottome; Set another pot in the ground, and this upon it, and about it let there be a hot fire of coals, and the oyle will fall into the pot underneath, this is distillation *per decensum*; It is excellent not only for the pain of the Teeth, and Hemorhods, but also for Epilepsy, Vertigo, and Palsie.

> Let them be boiled in a Pottle of Water wherein Steel hath been quenched, till the Liquor come to a Quart; after the straining, put in half an handful of Bay-

> Let it be used with Scarlet-Cloth, or Scarlet-Wool, dipped in the Liquor hot, and so renewed seven times; all in the space of a quarter of an hour or little more.

> > THE PLAISTER

B. Emplastrum Diacalcitheos, as much as is sufficient for the part you mean to cover; let it be dissolved with Oyl of Roses in such a consistence as will stick, and spred upon a piece of Holland, and applied.

INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

Lockwells CREAMOVOXE

KAPOSVIT

BICANTEX

ISPLENE

BRITISH PHARMACEUTICAL CONFERENCE, 1956

SCIENCE SESSIONS

Continued from THE CHEMIST AND DRUGGIST, September 22, p. 340.

MR. R. M. RIDGWAY read the first paper to be taken on the afternoon of September 4. It dealt with:

Glinus Oppositifolius, L., Root— A Substitute for Senega

R. M. RIDGWAY AND J. M. ROWSON

SAMPLES of a material labelled "Indian senega root" offered on the English drug market and in Europe have been claimed to possess the medicinal properties of *P. senega*. The macroscopical and microscopical characters of the material have been examined and are described. Preliminary determina-tions of haemolytic index show values ranging from about one-fifteenth to one-quarter of those of senega roots.

From the School of Pharmacy, Leicester College of Technology, and the Museum of the Pharmaceutical Society of Great Britain.

Discussion

Dr. J. W. FAIRBAIRN, London, asked whether the authors had any further observations on the haemolytic indices of the plant. The stomata had been described by the authors as anomocytic, a large group formed by many different types of stomata otherwise indecipherable. There appeared to be some regularity of feature in the ones shown in the drawings. Had the authors ascertained whether the regularity persisted for all specimens? The word "scleren-chymatous" was redundant in describing fibres, since all fibres were sclerenchymatous.

DR. T. E. WALLIS, London, said that true senega had a primary xylem consisting of two primary xylem bundles. How many such bundles were there in the root under discussion?

MR. T. C. DENSTON, London, said the Indian Pharmacopæia, 1955, contained a monograph on Indian senega. Were the two samples used such as were commercially available in this country, or had they been offered in India as complying with the I.P. test?

MR. RIDGWAY, replying, said that the haemolytic index varied greatly with the method of extraction. Many stomata had been examined, but it was not possible to say whether a regular pattern occurred. Probably it did not. The haemolytic index was not necessarily a measure of the toxicity of the drugs, and their pharmacological action was not proportional to the haemolytic index. Both samples used were from English sources

Mr. R. G. ATKINSON read the next paper, the title of which was:-

Evaluation of Belladonna Herb I. Quantitative Determination of Seed in Powdered Herb

R. G. ATKINSON and C. MELVILLE ROUTINE microscopical examination of commercial samples of powdered belladonna herb revealed apparently excessive amounts of fragments of

belladonna seed, suggesting that the drug was not being collected during the flowering period (as the B.P. requires). Experiments were made to determine the number of testa cells per gm. of belladonna seed; the number of testa cells present in a known weight of powdered belladonna herb; and the maximum percentage of seed that might be expected in the flowering that might be expected in the flowering herb. A mathematical method was herb. A mathematical method was devised to measure the surface area of the seed, and the method has been shown to be accurate. It may conveniently be used in branches of science where it is necessary to estimate the number of discrete particles accurately distributed over a surface. regularly distributed over a surface. The number of testa cells in unit area of belladonna seed was determined by direct counting, and the number per gm. was estimated to be about half a million. The figures are compared with those obtained by quantitative lycopodium methods. A method is described for the separation of testa cells of belladonna seed from other cellulosic material in the powdered herb. That enables a quantitative estimate to be made of the amount of seed present in the powdered herb. The proportion of seed present in the dried entire herb, collected when in flower, was also determined. Information is insufficient at present for a "limit of seed" to be suggested.

From the Department of Pharmacy, University of Manchester.

Discussion

THE CHAIRMAN asked whether there was any reason for not doing a direct

DR. T. E. Wallis, London, asked how great a convexity the authors had found in the shape of belladonna What sort of irregular objects seeds. were used to test the projection methods? Would not the shape of the ing purposes, without using polarised light?

DR J. W. FAIRBAIRN, London, said that in practice, when the authors' method was applied to the powdered herb, the standard deviation was wide, possibly because the oxidation process dissolved many of the less mature cells of the seed-coat. Why had the authors collected their plants so late in the season?

Dr. J. M. Rowson, London, said that a total alkaloidal assay and a total hyoscyamine assay would have given the answer more readily. The samples seemed to be high in seed content for one-year plants. How would the method behave when applied to seeds would the of varying maturity?

Mr. Atkinson replied that it had been hoped to find some correlation between the seed content at various stages and the amount of alkaloid present, but not sufficient work had yet been done to reach that objective. Most of the seeds were convex. For testing the projection methods, objects such as cylinders, which were easy to

measure, had been chosen. Polarised light was useful as an adjunct to determine the number of cells; maceration tended to reduce refractibility to polarised light. Seeds with endosperm lacking were unusual, and had there-fore been treated separately in the paper.

The next paper was read by DR. KULKARNI, It was:-

Pharmacognosy of Aspidosperma Barks of British Guiana

Part IV. Quantitative Numerical Studies of the Lignified Elements in Cascara and in Aspidosperma Species J. D. KULKARNI, J. M. ROWSON AND G. E. TREASE

BARKS derived from different species of the same genus often resemble one another closely in the microscopical structure of their elements and cell contents. Many barks contain sclerenchymatous tissue of stone cells and fibres, usually with heavily thickened walls which are frequently lignified; the striking appearance and strong rethe striking appearance and strong re-action of lignin of these cells render-ing them easily identifiable. If those two types of cell elements occurred in a fixed ratio one to the other in a given species, that would be useful for identification purposes, and especially so if the ratio values differed between different species. The barks of Aspidosperma species contain both sclereids and fibres and have been used to investigate that ratio. Some preliminary work was also carried out upon the barks of Rhamnus purshiana. The ratio of the areas of sclereids to fibres as seen in transverse sections of barks of Rhamnus purshiana was shown to be a constant for samples differing considerably in size, age or geographical origin; the average mean fibre lengths in barks of six species of Aspidosperma have been determined; the numbers of sclereids and numbers of fibres per mgm. of powders of those six barks have been counted; and it was found that the ratio S/F (number of sclereids: number of fibres) is a constant for barks of each species and serves to distinguish between them. From the Department of Pharmacy,

University of Nottingham, and the Museum of the Pharmaceutical Society of Great Britain.

Discussion

DR. T. E. WALLIS, London, said the paper was a useful new criterion for comparing related barks. The authors had noted that the total length of fibre was a useful character. It was remarkable that the ratio of sclereids to fibres should be constant for a particular species. Had the authors any explanation to put forward? He thanked them for confirming the utility of the equivalent sphere method.

Dr. KULKARNI replied that he could not offer any explanation of the constant ratio, but was sure the chromosome theory had something to do with it.

The next paper was read by THE CHAIRMAN. It was:-

Enzyme Inhibition Applied to the Estimation of Small Quantities

JOHN BUCKLES and KENNETH BULLOCK WHEN highly active substances are administered, it is often necessary to use tablets for oral administration or solutions for injection. Those prepara-tions may present a considerable problem to the analyst. Enzyme estimations are inexpensive and can be carried out in a chemical laboratory with as little trouble as, for example, the estimation of nitrogen. The limits of error usually lie between those of chemical and classical biology assays. The British Pharmacopæia lacks an assay of injection of neostigmine methylsulphate, It seemed logical, therefore, to try and devise a satisfactory process based upon the inhibition of cholinesterase. A method accurate to within 10-15 per cent, has been elaborated. A standardisation process has been described capable of ensuring, without the necessity of averaging replicate results, that a sample of injection of neostigmine methylsulphate has a strength not more than 10 per cent, in excess or deficiency of the strength stated on the label.

From the Department of Pharmacy,

Manchester University

Discussion

DR. D. C. GARRATT, Nottingham, described the assay method outlined in the paper as "slick," and as "progressing backwards." For the moment a conventional method of analysing neostigmine methylsulphate injection had escaped the analysts, but the paper was a challenge to them to produce one, and he assured Dr. Bullock that they would.

DR. FOSTER said that, with some hers, he had tried the method and others. found he could repeat the results. He was concerned, however, at the smallness of the titrations and suggested using sodium hydroxide diluted so as to give bigger differences and statistically more significant results. Dr. Bullock had said that he did not regard the method as a biological assay, and had given that as the reason for not applying statistical methods. That was begging the question. If statistical treatment was capable of being applied

it should have been.

MR. C. H. SMITH, Nottingham, was also concerned at "the non-use of available tools." Statistical methods might not do everything claimed for them but they did show the best assay methods and were particularly applicable to methods based on theories that could not be generally applied. thought the authors too enthusiastic for their method. The examples showed small differences that would make all analysts cautious, and he would suggest at least four replicates for accurate results.

MR A. R. ROGERS,

MR. A. R. Rogers, Brighton, thought fifteen minutes a rather short time for the prior incubation and sugtime for the prior incubation and suggested twenty-five. He thought the word "accuracy" should be replaced by "precision."

Replying, DR. BULLOCK asserted that those who said his method was "progress backwards" were looking in

the wrong direction. He had submitted his results to the statisticians, and all his results had been shown to be in correct order (10 per cent, high, 10 per cent, low, etc.). That was a proof of the method of finding, by one determination, that there was not more than 10 per cent. error, which was all he had set out to show. The suggestion to use a more dilute NaOH solution was a good one, and though fifteen minutes might seem a short incubation period he had seen no reason for prolonging it. The change to "precision" would be

The chair was taken during the latter half of the afternoon by Professor J. P. Todd. Mr. J. Allen read the next paper, which was:-

High-frequency Titrations in Pharmaceutical Analysis

J. ALLEN, E. T. GEDDES and R. E. STUCKEY.

A DESCRIPTION is given of simple instruments which provide a satisfac-tory indication of the end-point of a titration using high-frequency energy. The application of high-frequency titrations to a number of pharmaceutical analyses, including acid-base titrations, precipitation reactions and non-aqueous titrations, is described. The method is shown to give results comparable with those of the official assays.

From The British Drug Houses, Ltd., London and Poole.

Discussion

MR. C. A. JOHNSON, Nottingham, said the paper did not bring out any instance in which method would do something that could not be done by other means. Regarding the use of complexones in analytical work, Stuckey had said elsewhere that endpoint determinations in ethylenedi-amine-titrations often presented diffipoint culties. Could the authors comment on

DR. A. H. BECKETT said the authors did not appear too happy about Blake's method compared with the other two they had mentioned, and they had tried changing the frequency when using Blake's method. He and his co-workers had found that the electrode size and spacing were more important than the

frequency in Blake's method.

MR. SELLWOOD, London, asked whether the authors had any experience of the use of the simple oscillator proposed by Alexander?

MR. ALLEN, replying, said the paper was in the nature of an introduction and the instruments used were "low-definition" instruments. There were wide applications for that type of determination.

The title of the next paper, which, in the absence of the authors, was read by Professor W. H. LINNELL, was:—

Determining Binary Mixtures by Distribution Measurements Its Application to the Assay of Strychnine in Presence of Quinine

C. MORTON and E. H. TINLEY

combined determination strychnine and quinine in various pharmaceutical preparations, and the

estimation of strychnine in the presence of brucine, are typical examples of the analysis of binary mixtures. When a mixture of two substances is dissolved in a suitable solvent and shaken with another immiscible solvent, the weight of mixed solutes present in each phase at equilibrium is a linear function of the percentage composition of the original mixture, provided that the distribution law is obeyed. Thus if, after separation of the solvents, the weight of solutes in either phase is determined, the relative proportions of the components in the mixture may be read on a linear graph connecting the weight of residue with the percentage composition. Errors due to deviations from the distribution law may be avoided by constructing the graph empirically from data obtained by using mixtures of known composition approximating to that of the sam-ples for analysis. A mixture of quinine and strychnine may be rapidly and accurately assayed by dissolving a known weight of the mixed alkaloids in N hydrochloric acid and determining the weight of residue obtained by one extraction with chloroform.

From the School of Pharmacy, Chelsea Polytechnic, London.

Dr. F. Hartley, London, asked what quality of chloroform had been used, and what proportion of alcohol had been present in the chloroform.

DR. G. E. FOSTER, Dartford, while congratulating the authors on an ingenious method of determining binary mixtures, asked for further information on what was actually weighed. Was it strychnine base or strychnine hydro-chloride? And did the residue contain a strychnine-chloroform additive compound?

MR. R. L. STEPHENS, Brighton, asked whether the authors had considered what effect a change of temperature would have on the partition coefficient.

Dr. D. C. Garratt, Nottingham, said he was surprised that, in order to arrive at equilibrium, the authors had found it necessary to shake the mixture for one hour.

PROFESSOR LINNELL, in winding up the discussion, said that as he was not familiar with the authors' work he could give no information on the quality of chloroform used, but that the presence of 2 per cent. alcohol in the chloroform would not affect the results. He would think that the residue consisted principally of chloroform base, with possibly a small proportion of strychnine-chloroform additive compound.

The next paper, which was read by Mr. N. C. Chaudhry, was entitled:—

Sustained Release of Drugs from Ion-exchange Resins

N. C. CHAUDHRY and L. SAUNDERS THE rates of release of ephedrine from sulphonic acid cation exchange resins in contact with O.1N hydrochloric acid, sodium chloride and sodium bicarbonate solutions have been examined. Sustained release occurred over a period of more than six hours when a method involving removal of cluted alkaloid

was used, even under the drastic conditions of the infinite bath method where a high continuous flow of eluant was employed. That provides an important safety factor for the possible use of those resin preparations in medicine. The release of dexamphetamine was also studied. When the resin is only partly converted to the ephedrine form or when a mixture of the ephedrine and hydrogen forms of the resin is used, the initial release rate is reduced and the later rate is increased, producing a straightening of the release curve. From the Physical Chemistry Department, School of Pharmacy, University of London.

Discussion

THE CHAIRMAN asked whether any products of the type under discussion had been tested clinically, and what types of drug might be used in that way? PROFESSOR W. H. LINNELL, London,

said work on the clinical applications of amphetamine with ion-exchange resins had been reported in America and about 70 per cent. of them stated that the potency was appreciably higher than that of amphetamine taken in the normal way. Trials in Great Britain had shown the same unexpected potency.

MR. D. JACK, London, asked why had been chosen as a test temperature? The temperature likely to be encountered in use was nearer 37° or 38°. What was the effect when the temperature was changed from 25° to 35°. Under in vivo conditions there would be large quantities of cations other than hydrogen present, so there would not be such drastic changes in the re-lease rate curve as had been demonstrated. Had the authors any information on in vivo tests?

MR, A. AXON, Dartford, asked what were the difficulties of storing a resin containing 5 per cent. moisture? What was the substance of choice to prevent mould and fungal growth? What kind of release of substances was obtained from a dried resin?

DR. G. E. FOSTER, Dartford, asked how much resin must be given for a normal dose? Would the bulk be small

enough to be prepared as tablets?

MR. N. J. VAN ABBE, Loughborough, asked whether the authors had given enough characterisation of the resin. And would they elaborate on the appro-

priate time intervals?
DR. K. R. CAPPER, London, asked whether any difference in performance had been found between batches of resin supplied as identical by the manufacturer.

Mr. W. P. Hutchinson, Oxford, said that many new elements had been iso-

lated using ion-exchange resins.

MR. T. D. WHITTET said that one drug already being used extensively in that way in Great Britain, was quinine ion-exchange resin used for the diagnosis of achlorhydria. That use was very successful. He had used ion-exchange resins to concentrate pyrogens in tap water, but had not been able to elucate the pyrogens.

to elute the pyrogens from the resins. Dr. J. C. Parkinson, Brighton, asked whether the release of the alkaloid from the resin would cease when the resin passed into the alkaline conditions prevailing in the gastro-intestinal tract. MR. S. G. E. STEVENS, London, asked

had there been any difficulty in determining the range of particle size? It was necessary to produce some clear in vivo figures.

MR. N. C. CHAUDHRY, replying, said they were more concerned with the elucidation of the mechanism than in testing under different experimental conditions. They had not examined any preparations clinically or in vivo, but it was possible that other drugs than amphetamine or ephedrine could be usefully given by that method, especially those having small doses, e.g., bella-donna in gastric disorders. It should be possible also to produce a resin for anionic drugs such as barbiturates. Increasing the temperature of the reactions from 25° to 35° C. made a negligible difference. A good deal of data had been published regarding the release from dried resins. It would be slightly slower. Regarding the characterisation of the resin, he had found no difference between the two batches he had used. Release would continue in the intestine, depending on the strength.

DR. SAUNDERS, replying, said 25° was chosen because the temperature coefficient was not very great and it was difficult to work far away from room temperature, but further work would preferably be done at higher tempera-

The next paper, read by Mr. WHIT-TET, was:-

Toxicity of Congo Red Injections

G. F. Somers and T. D. WHITTET IN view of conflicting reports on the toxicity of Congo red, on methods of preparing the injection, and on its stability in solution, the authors investigated the effects of different methods of sterilisation, of pH changes, and of storage conditions on the toxicity of Congo-red solutions. A method is described for the preparation of such solutions for injection. The solutions may be sterilised by autoclaving, steaming or filtration through a bacteria-proof filter without increase of toxicity. At room temperature they are stable for at least seven months, and storage in a re-frigerator is not recommended. Prolonged exposure to air does not increase toxicity provided evaporation does not take place. Acid solutions are dangerously toxic, and the adoption is recommended of a lower limit of p_H 7.0, as directed by the United States Pharmacopœia. Sodium chloride increases toxicity. No solution should be injected which is not bright red and clear. From the Department of Pharmacology,

School of Pharmacy, University of London and the Pharmaceutical Depart-University College Hospital, ment, London.

Discussion

Dr. HARTLEY said that reference had been made to pyrogenicity. Was that a proper use of the term or was it another manifestation of a toxic impurity in a non-homogeneous substance? He would be happier if the authors would explain why they had concluded that the toxicity of one bad sample was due to the original material. Criteria were

needed to sift the good from the bad in Congo red.

MR. C. H. SMITH, Nottingham, asked whether the suitability of Congo red might not be established on physical characters of the material. Was the characters of the material. Was the authors' bad batch bad from the point of view of toxicity or of precipitation.
Would the sample have passed the B.P.C. toxicity test?

MISS. M. H. NEAL, Kuala Lumpur,

Malaya, asked whether labelling requirements should not parallel the recommended storage conditions. She also appealed for more tests by authors at temperatures encountered in practice in tropical climates.

MR. S. G. E. STEVENS, London, said the authors had commented that there were no precipitation solutions that were not liable to develop toxicity. At what point would toxicity reactions commence?

Replying, Mr. WHITTET agreed that "pyrogenicity" as applied to Congo red was not related to bacterial contamination but probably to toxicity of impurities. His "bad sample" had given a precipitate on autoclaving, and further quantities when tested showed toxicity. For the main work described in the paper only one sample had been used, but other commercially available samples had been tested. He was of the opinion that physical properties explained the toxicity of Congo red sam-ples. One sample of Congo red mar-keted as an indicator dye had been no more toxic than those for clinical use, and its pH was much nearer the U.S.P. limit. Safer storage time of the recommended solution could already be claimed to be greater than seven months.

Replying as co-author, DR. G. F. SOMERS said that only material of B.P.C. standard had been used, and evaporation had been done under aseptic conditions. It had to be borne in mind that, above a certain concentration, solutions of Congo red were liable to precipitate, and that there was a danger from storage in a refrigerator

that crystallisation would occur.

The next paper, which was read by Dr. J. W. HADGRAFT, was entitled:—

Percutaneous Absorption Using Diiodofluorescein 131 I

J. W. HADGRAFT, G. F. SOMERS and H. S. WILLIAMS.

A PRELIMINARY study has been made of the percutaneous absorption of diiodofluorescein 131I in the rat from a number of typical ointment bases with two main objects in view: (a) to estimate the value of radioactive tracer techniques in assessing percutaneous absorption in laboratory animals and (b) to obtain information on the absorption of medicaments from white paraffin, lard, cetomacrogol, ous ointment and hydrous soft hydrous Ointments emulsifying ointment. containing radioactive diiodofluores-cein in five different bases were prepared. Using white soft paraffin and lard, non-emulsified ointments, in which the diiodofluorescein was insoluble, were made; using cetomacrogol base, non-emulsified ointments in which the diiodofluorescein completely was

soluble were prepared; and emulsified ointments were prepared from hydrous ointment and hydrous emulsifying ointment. The percutaneous absorption in rats of diiodofluorescein ¹³¹I from the five different bases was tested. The amount absorbed was extremely small and varied widely.

From the Royal Free Hospital and the School of Pharmacy, University of London.

nuon.

NOTES ON NEW PRODUCTS

Comments on items given in Guide to New Medicaments, especially to show their relationship—pharmacological or chemical—with other products or compounds.

ATARAX.—A tranquillising drug derived from benzhydrol, in which the OH group is replaced by the N atom of a complex cyclic group. Thus it differs from Covatin and benaetyzine, which have open chain instead of cyclic substituents, and a'so from Meratran. The latter compound also has nitrogenous cyclic substituents, but the nitrogen is not linked directly with the benzhydrol group. Covatin is also exceptional as it contains sulphur. The name Atarax can be derived from ataraxia, or tranquillity of soul. Meprobamate, also known as Equanil, Mepavlon or Miltown, is a relatively simple propane derivative, and has no chemical relationship with the cyclic compounds.

CHOLEDYL.—The choline derivative of theophylline, aminophylline being the ethylenediamine compound. Choledyl is said to give a higher blood level of theophylline, and to be better tolerated. Other theophylline compounds include Monotheamin (theophylline monoethanalamine) and Etophylate (theophylline piperazine ethanoate).

CIROTYL. — Chemistry: Contains synthetic diacetoxydiphenylisatin, the laxative principle found in prunes. That compound stimulates peristalsis by its local action on the mucous lining of the colon and large intestine. It is not absorbed. A granular form was once available under the name Isacen, A similar contact laxative is Dulcolax (diacetoxydiphenylpyridylmethane).

ECOLID. — Also known as chlorisondamine. Chemistry: Differs from many bis-quaternary blocking agents in three ways: (1) The groups at each end of the methylene chain are not alike, one being cyclie and the other aliphatic; (2) the shortness of the methylene bridge connecting the two quaternary nitrogen groups; (3) the cyclic group is halogenated. Those structural differences are reflected in the potency and oral activity of the drug, as most quaternary ammonium compounds, such as hexamethonium, are absorbed irregularly following oral administration, and give an erratic response. More regular absorption by the oral route is obtained by mecamylamine (Inversine). That is a camphane derivative, and has little structural relationship with the quaternary compounds. Other drugs used in hypertension include pentolinium (Ansolysen), hydralazine (Apresoline) and the rauwolfia and reserpine preparations.

GLUFERATE. — Ascorbic acid is included in this preparation of ferrous gluconate to assist assimilation by its reducing action. Other ferrous gluconate products, but without added vitamin C, are Fergon, Ferronicum, Ferlucon and Folvron, Ferro-Redoxon is a preparation of ascorbic acid and ferrous sulphate,

OPILON.—A vasodilator that acts by inhibiting the pressor action of circulatory adrenaline and adrenaline-like substances. Drugs which produce similar effects, although the mode of action may be different are Perdilatal, Cyclospasmol, and Rogitine, Priscol (tolazoline) is used mainly for its peripheral vasodilatory action; it has little use in hypertension.

ROVAMYCIN. — Also known as spiramycin. Particularly active against Gram-positive bacteria, the drug resembles penicillin and erythromycin in being a "narrow range" antibiotic.

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (October 6, 1956)

ECOLID

MANUFACTURER: Ciba Laboratories, Ltd., Horsham, Sussex.

DESCRIPTION: An orally effective ganglion blocking agent as tablets, each containing 25 or 50 mgm.; and as ampoules, each containing 5 mgm. 4,5,6,7 tetrachloro-2-(2-dimethylaminoethyl)-isoindoline dimethochloride.

INDICATIONS: Hypertension, including malignant forms.

DOSAGE: As with other ganglion blocking agents it is essential to arrive at the optimum dosage individually for each patient. In most cases the initial dose should be 25 mgm., followed by gradual increments of 25 mgm. until stabilisation is achieved. For fuller details see makers' literature.

How Supplied: *Tablets*, in boxes of twenty-five, 100 and 500; *Ampoules*, in box of six. First Issued: July 16, 1956.

REFERENCES: Maxwell and Howie, *Brit. med. J.*, 1955. **2**. 1189. Hamilton, *Brit. med. J.*, 1956. **1**. 319.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (October 6, 1956)

CORDEX*

Manufacturer: Upjohn of England, Ltd., 4 Aldford Street, Park Lane, London, W.1.

DESCRIPTION: Tablets, each containing 0.5 mgm. prednisolone and 300 mgm. (gr. 5) acetylsalicylic acid.

INDICATIONS: The following rheumatic diseases when they are of mild to moderate severity and are not controlled by salicylates alone: Rheumatoid arthritis, osteoarthritis, gouty arthritis, bursitis, tenosynovitis, myositis, fibrositis, and neuritis.

Dosage: 1-2 tablets, four times daily.

How Supplied; In bottle of 100 tablets. First Issued: June 18, 1956.

NOTES: Distribution of the drug is at present limited by the Ministry of Health to hospitals.

REFERENCES: Spies and others, J. Amer. med. Ass., 1955. 159. 645.

*New cross reference for card index:

PREDNISOLONE: See Cordex, Deltacortril and Delta-Stab.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (October 6, 1956)

ATARAX*

MANUFACTURER: Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent.

DESCRIPTION: Tranquillising tablets, each containing 10 mgm. hydroxyzine hydrochloride, known chemically as 1-(p-chloro-benzhydryl)-4-[2-(hydroxyethoxy) ethyl] diethylenediamine hydrochloride.

INDICATIONS: Anxiety reaction and tension states; psychoneuroses; psychosomatic illnesses; premenstrual tension and the climateric; and personality adjustment problems in the young and old.

Dosage: Adults, on the first day, 50 mgm. is suggested and thereafter dosage should be adjusted to the individual need. For a transient effect 2-3 tablets taken during the evening are normally sufficient. Children aged 3-10 years, usual dose 1 tablet two or three times daily.

How Supplied: In bottles of twenty and 100 tablets, First Issued: July 16, 1956.

*Cross reference for card index:
HYDROXYZINE HYDROCHLORIDE: See Atarax.

(IDROCHLORIDE: See Alaiax.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (October 6, 1956)

GLUFERATE

Manufacturer: John Wyeth & Bro., Ltd., Clifton House, Euston Road, London, N.W.1.

DESCRIPTION: Coated tablets, each containing ferrous gluconate, 300 mgm., and ascorbic acid, 25 mgm.

INDICATIONS: All iron deficiency anamias, including those of idiopathic, hamorrhagic or dietary origin.

Dosage: 1-2 tablets after food, three times daily.

How Supplied: In containers of thirty and 250 tablets.

FIRST ISSUED: July 1956.

REFERENCES: Hunt, Brit. med. J., 1955. 1. 717.





satisfied sooner . . .

Patients who suffer from obesity usually have an excessive desire for food. They live to eat. Of course they want to lose weight. And they do try. But their love of food, their hunger pangs, and their lack of will power are all too great. These are the patients Preludin really can help because it does not destroy the taste for food, does not demand a Spartan diet, but does allow the patient to eat most foods yet still lose weight because the appetite is satisfied sooner.



PRELUDIN is a powerful appetite controlling agent. It acts quickly and effectively-without risk-by restraining the patient's appetite. It strengthens adherence to a prescribed diet. It breaks the psychogenic overeating habit. And it enables the patient to lose weight safely and without mental strain. Preludin in recommended dosage does not raise the blood pressure, and does not create excessive mental stimulation. It is the prescription of choice in all cases of obesity-especially those with cardiovascular disorders-because it reduces the risk of reducing.

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(Tablets of 25 mg. in tubes of 20 and bottles of 250)





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Registered proprietors of the Trade Mark.

*Regd. Trade Mark

GUIDE TO NEW MEDICAMENTS (concluded from p. 392).

THE CHEMIST AND DRUGGIST Guide to New Medicaments (October 6, 1956)

CHOLEDYL*

MANUFACTURER: Allen & Hanburys, Ltd., London, E.2. (Under licence from Nepera Chemical Co., Inc. U.S.A.)

DESCRIPTION: Pink tablets containing 100 mgm., and vellow tablets each containing 200 mgm. choline theophylli-

INDICATIONS: As a bronchodilator in bronchial asthma; as a mild, non-mercurial oral diuretic in congestive heart failure; as a (CH₃)₃NCH₂CH₂OH

Choline theophyllinate

Acetoxy-thymoxy-ethyldimethylamine

spasmolytic in chronic bronchospasm; as a coronary vasodilator in angina pectoris.

DOSAGE: Adults: 100-200 mgm., three or four times daily; Children over six years: 100 mgm., three or four times daily.

How Supplied: In bottles of 100 and 500 scored tablets.

FIRST ISSUED: June 1, 1956.

REFERENCES: Batterman et al., Internat. Rec. Med. and Gen. Pract. Clin. 167, 261, 1954. Duesel and Fand, ibid., 167, 245, 1954. Katz and McCormick, ibid., 167, 271, 1954. Dann et al., ibid., 167, 265, 1954. Schachter et al., ibid., 167, 248, 1954. Grollman, Pharmacol and Therap., Philadelphia, 734, 1951.

*Cross reference for card index:

CHOLINE THEOPHYLLINATE: See Choledyl

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OPILON

MANUFACTURER: Veritas Drug Co., Ltd., Shrewsbury.

DISTRIBUTOR: Coates & Cooper, Ltd., West Drayton, Middlesex.

DESCRIPTION: A sympathicolytic drug which is the hydrochloride of acetoxy-thymoxy-ethyldimethyl

INDICATIONS: Apoplexy; post-concussion headache; migraine following head injury; headache following lumbar puncture, air encephalography, etc.; carotid sinus syndrome; bedsores in paraplegia.

CONTRA-INDICATIONS: Conditions caused by parasympathetic overactivity.

Dosage: The company's literature should be consulted.

How Supplied: Opilon: In bottles of fifty and 200 5-mgm. tablets; and in boxes of six and twelve 5-mgm. 1-mil ampoules. OPILON FORTE: In boxes of six and twelve 30-mgm, 2-mil ampoules. Depor-Opilon: In boxes of six and twelve 30-mgm. 2-mil ampoules. FIRST ISSUED: June 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (October 6, 1956)

ROVAMYCIN*

DISTRIBUTOR: Pharmaceutical Specialitics (May & Baker), Ltd., Dagenham, Essex.

DESCRIPTION: Tablets, each containing 250 mgm. spiramycin (a new antibiotic prepared from Streptoniyces ambofaciens) base.

INDICATIONS: Infections due to Staphylococcus aureus, particularly where penicillin-resistant; staphylococcal enterocolitis resulting from the use of broadspectrum antibiotics; pneumococcal and streptococcal infections, particularly those of the lungs, upper respiratory tract and middle ear; non-specific urethritis.

Dosage: Total daily dose should be divided and taken at 6-8 hourly intervals. MILD INFECTIONS: Adults, 2 gm. daily; Children, 50 mgm, per kilo bodyweight daily. Moderately Severe Infections: Adults, 3 gm. daily; Children, 75 mgm. per kilo body-weight daily. Severe Infections: Adults, 4-5 gm. daily; Children, 100 mgm. per kilo body-weight daily.

How Supplied: In container of twenty tablets.

FIRST ISSUED: July 2, 1956.

REFERENCES: Darbon and Crosnier, Presse méd., 1955. 63. 681.

*Cross reference for card index: SPIRAMYCIN: See Rovamycin.

HERB CROPS, 1956

Report from Holland

THE following report on the 1956 herb crops grown in Holland has been received from the growers' marketing organisation—United Netherlands Herb Co-operative (V.N.K.), Oostendorp:—

MARIGOLD FLOWERS: Crop very small, delivery about October. No more forward contracts can be accepted; a few parcels from last year's crop are still available.

DIGITALIS PURPUREA: From the new crop we have nothing to offer for sale, the whole yield being necessary for running contracts. We are still in a position to supply from previous crop.

TARRAGON LEAVES: During the past few years we have experienced a constantly growing demand. We expect several sizeable parcels in September/ October.

PEPPERMINT LEAVES: Cultivation has proceeded satisfactorily; we expect several parcels in September/October, good leaf.

DILL: Limited areas have been planted, we expect to harvest a few tons.

BELLADONNA HERB: Nothing has been planted in 1956. We still have several lots in stock with a reasonable content.

HENBANE HERB: No cultivation in 1956; a few parcels still available at an interesting price.
CELANDINE HERB: Our product is of

a specially fine colour, with a high chelidonine content.

LOBELIA HERB: After the failures in the United States we have paid special attention to this tender plant. Although we expect a smaller crop than at first estimated, as a result of the rainy summer, we anticipate to be able to deliver this product-fully equal to the American quality-to our regular clients.

PANSY HERB: A smaller crop than usual is expected, prices slightly higher, but a few lots 1955 still available at the old price.

ANGELICA and LOVAGE: The crop of roots will be very small, as a result of frost damage to the young plants. further set-back was encountered in June and July when the weather was cold with heavy rainfalls. Our angelica stock from last year's crop is exhausted. There is still some lovage root from the 1955 crop with a good content,

RHUBARB, Chinese Type: Our clients have shown increased interest in this article, rhaponticin-free medicinal rhubarb. Botanically, it originates from the same plant as the Shensi product (Rheum palmatum L. var. tanguticum Maximowics1. A few parcels from last crop still on hand.

VALERIAN ROOT: Crop expected in November/December, we anticipate a normal harvest: Holland is gradually becoming one of the most important producers. A few tons of 1955 stock remains, very nice quality (less than $2\frac{1}{2}$ per cent, sand) with a high content.

HORSERADISH: Crop in December. Still in stock powdered or kibbled in tins.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, OCTOBER 3: Trading was slow in most sections of the CRUDE Drugs market with prices mainly unaltered from the previous week. The number of commodities short both on the spot and at origin continues to grow.

CASSIA whole bark was dearer on the spot with shipment offers unobtainable. Chinese MENTHOL for shipment eased slightly reflecting the cancellation of the freight surcharge on goods from the Far East. PEPPERS were also lower in a market which lacked buying interest. CASCARA SAGRADA for shipment advanced from 275s. to 290s. per cwt., c.i.f., whilst spot material was up to around 310s., duty paid, although it was difficult to get firm offers.

For the most part ESSENTIAL OILS were quiet. Some speculative dealing in Formosan CITRONELLA pushed the forward prices up for the second week in succession. A typhoon in that island is reported to have damaged most of the mint crop and shipment offers of Formosan Peppermint oil were almost wholly withdrawn. Lemongrass was slightly dearer for shipment but spot PATCHOULI was down by two shillings per lb.; Petitgrain by one shilling; PALMAROSA by 1s. 6d. and SASSAFRAS by threepence. Bourbon GERANIUM was dearer by one shilling per lb. on the spot.

In PHARMACEUTICAL CHEMICALS the price of TANNIC ACID was raised by one shilling per lb.

Pharmaceutical Chemicals

Ammonium chloride, B.P. — Makers quote 1-cwt. lots at 68s.

Aneurine hydrochloride, — Price per kilo is £22 5s, with 10-kilo lots at £22 2s, 6d, per kilo.

ANTIMONY SALTS.—Quotations for POT-ASSIUM TARTRATE, B.P., are 7s. 6d. per lb. for 1-10 cwt. and SODIUM TARTRATE, B.P., 13s. 3d.

ASCORBIC ACID.—Rates (per kilo) are:-1 kilo, £5 7s.; 10 kilos, £5 4s.

ASPIRIN. — Prices are as follows:—5-cwt. lots, 4s. 7d. per lb.; 1-cwt., 4s. 9d.

BARBITONE.—Rates per lb. for 1-cwt, lots is 24s, per lb. The SODIUM derivative is 24s, 6d. per lb.

BARIUM SULPHATE.—1-cwt, lots of B.P. (x-ray) are now 1s. $6\frac{1}{2}$ d. per lb. and 5-cwt, 1s. $5\frac{1}{2}$ d. per lb.

BENZAMINE.—In 16-oz. lots Lactate is 15s. 3d. per oz. and Hydrochloride, 16s. 3d. per oz.

Benzoic acid,—1-cwt, lots are 2s, $11\frac{1}{2}d$, per lb, the Sodium salt is 2s, $9\frac{1}{2}d$, per lb, in 1-cwt, lots.

BISMUTH SALTS.—The following are the prices (per lb.) in largest bulk packages:-

	28 lb. to 1-cwt.	1-cwt.	5-cwt.
CARBONATE	 s. d. 22 3	s. d. 21 9	s. d. 21 4
SALICYLATE SUBGALLATE SUBNITRATE	 21 9 21 1 20 5	21 4 20 8 20 0	20 10 2

The present 1-cwt, rates for other salts are: —CITRATE, B.P.C., 22s. 8d.; NITRATE, Crystal, 14s. 8d.; OXIDE, B.P.C., 27s. 7d.; OXYCHLORIDE, B.P., 27s. 9d.; OXYIODOGALLATE, B.P.C., 28s. 9d. and TRIBROMPHENATE, B.P.C., 26s. 9d. BUTOBARBITONE.—B.P.C. is 70s. per lb. in 1-cwt, lots.

CALCIFEROL.—B.P. is 3s. 11d. per gm. for 100-gm. lots and 3s. 9d. per gm, for 250-gm.

CALCIUM PANTOTHENATE.—Price per kilo is £22 17s. 6d.

CHLORAL HYDRATE. - In 1-cwt, lots the price is about 3s. 10d. per lb. as to holder. CHLORBUTOL.—28-lb. lots are at the rate of 10s, per lb.

Chlorocresol.—Pharmaceutical quality is quoted at 7s. 2d. per lb. for 1-cwt. lots.

Chloroform.—1-cwt. lots in winchesters are 3s. 6d. per lb.; 56-lb., 3s. $6\frac{1}{2}$ d. In drums, prices are 3s. 4d. and 3s. $4\frac{1}{2}$ d. per lb. respectively.

CITRATES. — Rates (per lb.) for 1-cwt. and 5-cwt, lots are as follows:—

	1-cwt.	5-cwt.
SODIUM* POTASSIUM* IRON AND AMMONIUM†	s. d. 3 2½ 3 9½ 4 1½	s. d. 3 1½ 3 8½ 4 0½

*Powder is 2d. per lb. more. †Scales are 9d. per lb. more.

COCAINE.—For 16-oz. lots the price of the HYDROCHLORIDE is 91s. 6d, per oz. and ALKALOID, 101s. Subject to D.D.A. regulations.

Cresol.—Price of B.P. quality from distillers is 7s, 9d, per gall, in 5-gall, lots.

CYANOCOBALAMIN. — Less than 10 gm. lots are £87 10s. per gm.

Cyclobarbitone, — B.P.C. and calcium derivatives in 1-cwt, lots are 62s, 6d. per

7-DEHYDROCHOLESTEROL, ACTIVATED, — Price is 4d. per million units for less than 1,000 m.u. and 3½d. for 1,000 to 5,000 m.u.

DEXTROSE. — Rates are as follows:—
MONOHYDRATE, B.P., 1-lb., 1s. 11½d.; 7-lb.,
11s. 10d.; 28-lb., 43s.; free packages, less
12½ per cent. to wholesalers. In bulk,
1-ton lots, £90 ex works. ANHYDROUS, B.P.,
7-lb., 14s.; 14-lb., 26s. 3d.; 28-lb., 49s.
(terms as for monohydrate). 1-ton lots,
1107 10s. ex warshowse £107 10s. ex warehouse.

DICOPHANE (DDT).—Prices are as follows:—1-cwt. lots, 3s. 2d. per lb.; 1-ton, 2s. 11d.

EMETINE.—Price for 32-oz, lots of the HYDROCHLORIDE is 245s, per oz, The BISMUTH IODIDE is 122s. 6d. per oz.

FOLIC ACID.—B.P. and U.S.P. is offered at 5s. per gm, in 1-kilo lots.

GALLIC ACID.—B.P.C. is 8s. 7d. per 1b.

for 1-cwt, lots. HEXOBARBITONE.—In 1-cwt, lots the price

is 50s, per lb.

MENAPHTHONE.—B.P. is £11 per kilo; ACETOMENAPHTHONE, B.P., £11; WATER-SOL-UBLE (menadione sodium bisulphite, U.S.P.), £15 per kilo.

METHADONE HYDROCHLORIDE, — Price is from 2s, to 2s, 6d, per gm. as to quantity. Subject to D.D.A. regulations.

METHYL PHENOBARBITONE, — B.P. is 43s. per 1b. in 1-cwt. lots.

NICOTINAMIDE. — Prices per kilo are now: 1 kilo, 92s. 6d.; 10 kilos, 90s.; 50 kilos, 88s. 6d.

NICOTINIC ACID. — Prices per kilo are 57s. 6d, for 1-kilo and 53s, 6d, for 50-kilo

NIKETHAMIDE. - Prices per kilo are:-1-kilo, 113s.; 50-kilo, 105s.

1-kilo, 113s.; 50-kilo, 105s.

OPIATES.—Home trade rates for 4-oz. up to 7-oz. lots including container (non-returnable) are as follows:—CODEINE.—alkaloid, hydrobromide, iodide, 58s. 6d. per oz. (2,063s. per kilo); hydrochloride, sulphate, 51s. 3d. (1,808s.); phosphate, 44s. 9d. (1,578s.). DIAMORPHINE.—Alkaloid, 60s. 3d. per oz. (2,125s. per kilo); hydrochloride, 54s. 9d. (1,931s.) ETHYLMORPHINE.—Alkaloid, 53s. per oz. (2,222s. per kilo); hydrochloride, 53s. 9d. (1,896s.). Morphine.—Alkaloid, bimeconate, tartrate, 60s. 6d. per oz. (2,134s. per kilo); acetate, hydrochloride, sulphate, hydrobromide, 50s. 3d. (1,773s.).—Subject to D.D.A. Regulations.

Papayerine.—Synthetic hydrochloride

PAPAVERINE. — Synthetic HYDROCHLORIDE is 252s, 6d, per kilo.

PETHIDINE HYDROCHLORIDE, — B.P. 100-gm. lots are now quoted at 100s, Subject to D.D.A. Regulations.

PHENOBARBITONE.—1-cwt. lots are 21s. 6d. per lb. and SODIUM, 22s. 6d.

POTASSIUM 8-HYDROXYQUINOLINE SUL-PHATE.—1 kilo is 47s. 1d. and 50 kilos, 44s. per kilo.

PYRIDOXINE. Manufacturers' rate is £145 10s, per kilo.

RIBOFLAVINE, — Price (per kilo) is £24 17s, 6d. for 1-kilo and £24 15s, for 10-kilo lots.

ROCHELLE SALT. - Rates (per cwt.) for ROCHELLE SALT. — Rates (per cwt.) for powder or granulated material are as follows:—In 5-cwt. lots or over, 200s. per cwt.; 1-cwt., 202s. 6d. SEIDLITZ POWDER ordinary strength is 160s. 6d. per cwt. in 1-cwt. lots; smalls, from 2s. to 2s. 3d. per lb. Extra strong is 172s. 6d. per cwt., and from 2s. 1d. to 2s. 4d. per lb. for small quantities. Double-strength is 180s. per cwt.; smalls, 2s. 2d. to 2s. 5d. per lb.

SACCHARIN.-In lots of 1-lb, and over B.P.C. powder is quoted at 99s, 10d, per lb., the SODIUM SALT is 80s, 10d, per lb. Prices include duty and carriage.

Salicylic acid. — Prices are now: cwt. lots in bulk, 3s. 0½d. per lb.; 5-cwt. lots in 1-cwt., 3s. 2½d.

SODIUM CARBONATE. - B.P. exsiccated is 60s. 6d. per cwt.

SODIUM SALICYLATE.—Rates are now:—1-ton lots in bulk, 3s. 7d. per lb.; 5-cwt., 3s. 8d.; 1-cwt., 3s. 10d.

STRYCHNINE. — Minimum rates per oz. (1,000-oz. lots) include: — ALKALOID, 5s. 6d.; HYDROCHLORIDE, 5s. 3d., SUL-5s. 6d.; нур рнате, 4s. 8d.

Tannic acid. — Dearer. The B.P. levis, ex ether is quoted at 5s. 9d. per lb. for 5-cwt. lots and 6s. per lb, for 1-cwt. The B.P. powder is 5s. 6d. per lb, in 1-cwt.

THEOPHYLLINE.—1-cwt. lots of alkaloid, ANHYDROUS, are quoted at 18s. 6d. per lb. and AMINOPHYLLINE at 20s.

VITAMIN A. — Synthetic. Supplied in strengths of 200,000 international units per gm. the price is 11¼d. per million i.u. Natural is 1s. 4d. per million units.

VITAMIN D. — In oil, 2 million units per gm. the price is 2d, per million international units. Crystalline see under calciferol. D₃ see under 7-dehydrocholesterol activated.

VITAMIN E (synthetic). — TOCOPHERYL ACETATE, B.P.C., 10 gm. to 100 gm., 1s. 2d. per gm.; 100 gm. to 1 kilo, 1s. per gm. 1 kilo and under 10 kilos, £47 5s. per kilo. The equivalent rates for racemic C TOCOPHEROL (unesterified) are 1s. 3d. per gm.; 1s. 1d. per gm. and £52 per kilo.

Crude Drugs

Aconite. — Spot supplies of Spanish napellus are 3s. 9d. per lb., duty paid.

AGAR.—Kobé No. 1 is from 12s. 6d. per lb., duty paid; for shipment., 11s. 3d.,

ALOES. — Prime Cape for shipment is valued at 328s. per cwt., c.i.f.; spot, 345s. Curaçao, 345s., spot, and 340s., c.i.f.

ANISEED (STAR).—Chinese is 125s. per cwt., c.i.f., for shipment. Spot supplies (if available), 135s.

BALSAMS.—Quotations (per lb.) are:—CANADA: Spot almost unobtainable. COPAIBA, 7s. 9d. to 11s., duty paid. PERU, 10s., duty paid. TOLU (genuine as imported) is 27s. 6d., spot.

BELLADONNA. — LEAVES are 2s. 6d. per lb. on the spot and c.i.f. ROOT, 1s. 10d.

BENZOIN.—Sumatra block on the spot is from £25 to £30 per cwt. No. 1 for shipment is £23 5s., c.i.f. Almonds, 15s. per lb., c.i.f.

BUCHU.—Spot supplies are about 7s. 3d. per lb.

CARDAMOMS.—Aleppy greens for prompt shipment are 14s. 6d. per lb., c.i.f., with new-crop, September-October at 13s. 6d., c.i.f. Spot is 14s. 6d.

CASCARA SAGRADA. — American peel is about 310s. per cwt., duty paid, and 290s., c.i.f.

- Spot market bare and CASCARILLA shipment not quoted.

CASSIA BARK. — Whole on the spot is now 90s, per cwt., in bond, with forward offers difficult to obtain, Broken, 80s., in bond, and 63s., c.i.f., nominal.

CHILLIES. — Mombasa, spot 265s. per cwt., 255s., c.i.f.

CINCHONA.—Parcels of druggists' bark are available from 1s, 3½d, to 1s, 5d, per lb., according to total alkaloid content varying from 6.51 to 7.23 per cent.

CINNAMON.—Ceylon for shipment (c.i.f.) pet lb., OOOO, 7s. 2d.; OOO, 7s.; OO, 6s. 10d.; O, 6s. 8d.; firsts, 6s. 5½d.; quillings, 4s.; chips, 10½d. to 11½d. OOO, 7s., 6s. 5½d.;

COLOCYNTH PULP. — Spot offers are 4s 6d. per lb., duty paid.

DIGITALIS LEAF.—Purpurea is offered at 1s. 3d. per lb., c.i.f.

GINGER. — African on the spot is 242s, 6d. per cwt., with shipment at 230s., c.i.f. New-crop, February-April, 1957, 205s. Jamaican No. 3, 610s., No. 1, 630s. per cwt., spot; no shipment offers.

GUM ACACIA. — Kordofan cleaned sorts on the spot are 142s, 6d. per cwt.; afloat, 131s., c.i.f., and shipment, 126s. 6d., c.i.f.

KARAYA.—No. 1 gum on the spot is now quoted at 285s. per cwt., and No. 2 at 235s.

Kola nuts. — Jamaican are offered at about 8d. per lb., spot, and $6\frac{1}{2}$ d., c.i.f. African is $5\frac{1}{2}$ d. spot.

LOBELIA HERB. — Spot material is 11s. per lb. prompt shipment, 9s. 6d., c.i.f.

LYCOPODIUM. — Supplies of Russian triple-sifted are 7s. 3d. per lb. in bond.

MENTHOL. — Chinese is 50s, per lb. duty paid. October shipment, 45s., c.i.f. Brazilian, spot, 45s., duty paid.

MERCURY.—Per flask (76-lb.) £83 10s. on the spot.

Myrrh. - Selected sorts are unobtainable on the spot.

PAPAIN. — Firm, Spot value of East African is 28s, per lb, for grade 1.

PEPPER.—White Sarawak is 2s, 6\frac{1}{2}d, per lb. on the spot, with October shipment about 2s, 4\frac{1}{2}d., c.i.f. Black Sarawak is offering on the spot at 1s, 11d, per lb.; affoat, 1s, 9\frac{1}{2}d., c.i.f. Black Malabar, 275s, per cwt. on the spot; October shipment, 235s., c.i.f.

PEPPERMINT LEAVES. — Dutch for shipment are offered from 3s, 4d, to 4s, per

PIMENTO. - Spot is 590s, per cwt, with forward at 540s., f.o.b.

PODOPHYLLUM. — *Emodi* is quoted at 145s, per cwt. ex wharf. *Peltatum*, 475s., landed.

QUASSIA. — Chips are 42s. 6d. per cwt. on the spot.

QUILLAIA. — Spot offers of bark about 205s. per cwt. with shipment, 185s.,

RAUWOLFIA. — Serpentina is offere from 4s. 3d. to 4s. 9d., landed terms, a to origin. Vomitoria is 2s. 6d., landed.

RHUBARB.—Quotations for Chinese are from 6s. 6d. to 10s. 3d. per lb., as to

SAFFRON. — Mancha superior is nominally 300s, per lb. on the spot.

SARSAPARILLA.—Jamaican native red on the spot is 3s. 11d. per lb., and for shipment, 2s. 9d., c.i.f.

SASSAFRAS.—Selected bark is 5s. per lb., on the spot.

on the spot.

SEEDS. — (Per cwt.). Anise.—Tunisian, 205s., in bond; Spanish, nominal, 245s., duty paid. Caraway. — Dutch continue firm at 150s., duty paid. Celery.—Indian in short supply on spot; sellers now quoting 170s. Coriander.—Spot, prices are nominal. Moroccan, 95s.; Rumanian, 85s.; Bulgarian, 65s. (all duty paid). CUMIN.—Steady. Spot, Cyprian, 132s. 6d. spot. Moroccan, 135s., duty paid; Iranian, 110s., in bond and 120s., duty paid, DILL. — Indian is now quoted at 70s., on spot. Fenuer.—Firm. Indian, 97s. 6d. quoted on spot. Fenueree.—Quiet. Spot, Moroccan is 70s., duty paid; Indian, 67s. 6d. MUSTARD. — English 57s. 6d. to 77s. 6d. according to quality. according to quality.

SENEGA. — Spot is 19s. per lb. with shippers asking 18s. 6d., c.i.f.

SENNA. — New-crop Tinnevelly Leaves (per lb.) are: Prime bold, 1s. 6d.; prime No. 1, 1s. 3½d.; prime No. 2, 1s. 1d.; prime No. 3, 9½d PoDS, f.a.q., 8d., spot (7d., c.i.f.); hand-picked, 1s. to 1s. 9d. Alexandrian manufacturing pods, 10d. to 1s. 3d.; hand-picked, 5s. 3d. upwards as to capality. to quality.

SHELLAC. — F.O.T.N., 335s, per cwt.; F.O. No. 1, 345s.; fine orange, 360s. to 410s.

SLIPPERY ELM. — Grinding quality bark is 2s. 6d. per lb.

SQUILL.—White is offered on the spot at 57s, to 62s, 6d.

STRAMONIUM. — Indian LEAVES are 70s. per cwt., and European 80s. on the spot. STROPHANTHUS. — Kombé on the spot is 6s, 9d, per lb. for the 100 per cent.; Gratus is 12s. Both nominal.

Tonquin BEANS. — Para frosted are cleared on the spot but Trinidad are offered at 8s. per lb.

TURMERIC. — Madras finger on the spot is 90s, per cwt. with September-October shipment quoted at 75s., c.i.f.

VALERIAN ROOT.—Indian on the spot is 140s, per cwt. Dutch, 182s., c.i.f.

Vanillin.—Rates (per lb.) are now: -5-cwt. lots, 27s. 6d.; 1-cwt., 27s. 9d. 56-lb., 28s.; smaller quantities, 28s. 3d.

56-lb., 28s.; smaller quantities, 28s. 3d.

WAXES. — (Per cwt.), BEES' — Dar-esSalaam, October shipment, 615s., c.i.f.,
spot, 625s.; Sudanese, 600s, and 535s.,
c.i.f.; Abyssinian, spot, 600s., duty paid,
shipment, 527s., c.i.f. Candellila. —
Shipment, 550s. per cwt., landed; spot is
550s. Carnauba. — Fatty grey, spot,
565s. per cwt.; for shipment, 560s., c.i.f.
Prime yellow, spot, 1,320s.; for OctoberNovember shipment, 1,125s., c.i.f.

WITCH HAZEL LEAVES. — Spot supplies
are 2s. 3d. per lb.; September shipment,
2s. 1d., c.i.f.

Essential and Expressed Oils

CEDARWOOD. — 1-cwt. lots of American are 6s. 3d. per lb., and Kenya, 5s. 9d.

CITRONELLA.—Ceylon, afloat 6s. 3d, per lb.; forward shipment, 5s. 9d., c.i.f. Formosa for shipment is from 6s. 9d. to 7s. 3d., as to position.

CLOVE.—Madagascar leaf is 8s. 10d. per lb., duty paid and 7s. 9d., c.i.f., for shipment. Rectified 87–88 per cent., 12s. 6d.; distilled bud oil, English, 35s.

DILL. - B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are from 35s. per lb.

EUCALYPTUS.—Australian 70 to 75 per EUCALYPTUS.—Australian 70 to 75 per cent, eucalyptol on the spot is 5s, 8d, per lb.; 80 to 85 per cent., 6s, 4d. Spanish 70 to 75 per cent. at 4s, 11d., duty paid. Portuguese 70 to 75 per cent., 4s, 4d., duty paid, November delivery. Chinese type, 4s, 9d., duty paid.

FENNEL.—Spanish sweet on the spot is quoted from 12s. per lb. with Russian at 18s. 6d.

GARLIC.—English is 55s. per oz., on the spot.

GERANIUM.—Bourbon is from 102s. 6d. per lb. on the spot and Algerian, 77s. 6d.

GINGER. — English-distilled oil is 205s. per lb. Imported oils are 165s, for Jamaican and 87s, 6d, for Chinese, duty paid.

GRAPEFRUIT. — Jamaican is 16s. 6d. per lb.; South African, 12s.

HYATA. — Formosan, minimum 90 per cent. safrole, 4s. 10½d. per lb., spot.

OTTO OF ROSE. - Turkish is £250 per

LEMONGRASS. — Spot is 11s. 3d. to 11s. 6d. per lb.; afloat, 11s., c.i.f.; October shipment, 10s. $7\frac{1}{2}$ d., c.i.f.

NUTMEG.—English-distilled is nominally 120s, per lb.; imported, 72s, 6d.

PATCHOULI. — Penang is 33s., duty paid, and 27s. 6d., c.i.f.

PENNYROYAL. — Spot is quoted at 20s. 6d. per lb., duty paid.

PEPPERMINT.—Arvensis: Chinese is 31s. per lb. on the spot and 29s., c.i.f: Brazilian, 23s. spot, and 21s. 6d., c.i.f. Formosan, 19s. 3d., c.i.f., nominal: spot, 20s. Italian "Mitcham":type oil for shipment is 66s., c.i.f. Spot, American,

PETITGRAIN.—Paraguay, spot, 23s. 6d. to 24s. 6d. per lb., as to brand.

PIMENTO. — English-distilled berry is 175s. per lb.; imported, 72s, 6d. Rectified leaf, 27s, 6d. per lb. for small lots.

Sassafras. — Brazilian is 4s. per 1b. duty paid.

Spearmint. — Offers of U.S.P. oil are from 31s. to 31s. 6d. per lb. on the spot.

UNITED STATES REPORT

New York, October 2: More than score of large volume INDUSTRIAL CHEMICALS were advanced to new and higher levels during the week to October 2. FINE CHEMICALS also felt the upward price trend. CREAM OF TARTAR moved up two cents to 40 cents per lb. Santonin dropped to \$41.00 a lb., down \$2.10. Higher per lb. among CRUDE CHAMOMILE Roman Drugs were FLOWERS at \$1.50, up 30 cents; TRAGA-CANTH, ribbon No. 2, at \$2.85, up 15 cents; and No. 3, at \$2.40, up 40 cents. LYCOPODIUM was down to \$1.10 per lb., off 15 cents. Also lower was TURMERIC by two cents. U.S.P. quality DIGITALIS LEAVES were firmly priced at \$1.20 per lb., with supplies currently adequate to meet the demand. Lower among ESSEN-TIAL OILS were Formosan CITRONELLA at \$1.30 per lb. (down five cents), and Californian LEMON, \$4.25 (25 cents).

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of Insertion.

Monday, October 8

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon hotel, at 7.30 p.m. Dr. H. Davis (chief pharmacist, Ministry of Health) on "Current N.H.S. Topics."

WATFORD AND ST. ALBANS BRANCH, PHARMACEU-TICAL SOCIETY, Adeyfield Hall, Hemel Hemp-stead, at 8 p.m. Dr. J. S. Burgess on "Medical Aspects of Radioactivity."

Tuesday, October 9

GLASGOW PHARMACY CLUB, James Craig's tea room, 453 Sauchichall Street, Glasgow, at 7.30 p.m. Whist drive.

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Sun hotel, Hanworth Road, Hounslow, at 8 p.m. Mr. C. C. Stevens on "Acts of Parliament Affecting the Pharmacist in Practice.'

NORTH STAFFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, and North Staffordshire Division, British Medical Association, North Stafford hotel, Stoke-on-Trent, at 8.15 p.m. Mr. J. J. F. Merry (medical director, Merck-Sharp & Dohme, Ltd.), on "Cortisone" (illustrated).

SOUTH-EAST METROPOLITAN BRANCH, PHARMACEU-TICAL SOCIETY, New Cross inn, 323 New Cross Road, London, S.E.14, at 8 p.m. Mr. T. McLachlan on "The Work of a Public An-

TEES-SIDE BRANCH, PHARMACEUTICAL SOCIETY, Spark's café, High Street, Stockton-on-Tees, at 7.45 p.m. Mr. H. Steinman (a member of Council, Pharmaceutical Society) on "These Matters Concern You."

Wednesday, October 10

Enfield Chemists' Association, Firs Hall, Winchmore Hill, at 8 p.m. Supper dance.

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Craig's restaurant, 142A St. Vincent Street, Glasgow, at 7.45 p.m. Presentation of prizes; Mr. W. J. Tristram (a member of Council, Pharmaceutical Society) on "A Pharmacist in the Lord Mayor's Chair."

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY THAMES VALLEY PHARMACISTS' ASSOCIATION and SOUTH MIDDLESEX DIVISION, BRITISH MEDICAL ASSOCIATION, Red Lion hotel, Hounslow, at 7.30 p.m. Joint supper meeting; Dr. W. F. Macdonald on "Adam to the Atom."

LIVERPOOL CHEMISTS' GOLFING SOCIETY, Exchange hotel, Liverpool, at 7 p.m. Annual dinner,

MANCHESTER AND SALFORD BRANCH, PHARMACEU-TICAL SOCIETY, Manchester University, at 3.30 p.m. Presentation of prizes and address by Miss I. F. A. Lewis (president, Manchester Pharmaceutical Association).

READING BRANCH, PHARMACEUTICAL SOCIETY, Grosvenor House hotel, Caversham, Reading, at 8 p.m. Buffet dance.

SWANSEA AND WEST GLAMORGAN BRANCH, PHAR-MACEUTICAL SOCIETY, Mackworth hotel, at 7.45 p.m. Cosmetics lecture and demonstration by a representative of Yardley & Co., Ltd.

Thursday, October 11

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Oak hall, Baptist Church, College Road, Harrow, at 8 p.m. "Synopsis Dublinensis,"

Norwich Branch, Pharmaceutical Society, Assembly House, Theatre Street, Norwich, at 7.30 p.m. Mr. H. White (Kodak, Ltd.) on "Six x Six and all That."

Friday, October 12

HULL CHEMISTS' ASSOCIATION and BRANCH, Imperial hotel, at 8 p.m. Mr. H. E. Dale (Boots Pure Drug Co., Ltd.) on "Some Recent Ad-vances is Medicine."

SOCIETY OF CHEMICAL INDUSTRY, Royal Institution, Albemarle Street, London, W, at 6.30 p.m. Messel memorial lecture. Sir Alexander Fleck (chairman, Imperial Chemical Industries, Ltd.) on "The Chemical Industry: Some Achievements; Some Problems."

PRINT AND PUBLICITY

COMMERCIAL TELEVISION

(October 14-20)

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies.

LONDON STATION

TUESDAY: Pacquins hand cream (between 10.5 and 10.35 p.m.).

WEDNESDAY: Gibbs' S.R. tooth-paste (between 10 and 10.30 p.m.).

THURSDAY: Loxene medicated shampoo (between 7 and 7.25 p.m.).

FRIDAY: Pacquins hand cream (between 10.5 and 10.35 p.m.).

DAILY, Monday-Friday: Brylcreem (between 7.30 and 11 p.m.).

BIRMINGHAM STATION

SUNDAY: Pacquins hand cream (between 4.30 and 5 p.m.).

WEDNESDAY: Astral cream (between 8 and 10.30 p.m.); Gibbs' S.R. tooth-paste (between 8 and

THURSDAY: Astral cream (between 8 and 10.30 p.m.).

FRIDAY: Loxene medicated shampoo (between 7 and 7.30 p.m.).

SATURDAY: Cussons' cold cream soap (at 10.45 p.m.); Pacquins hand cream (between 7 and

NORTHERN STATION

SUNDAY: Pacquins hand cream (between 4.30 and 5 p.m.); Loxene shampoo (between 7.30 and 8 p.m.); Zoflora; Tokalon rose skin food.

WEDNESDAY: Amami wave set (between 7 and 11 p.m.).

THURSDAY: Amami wave set (between 10 and 10.30 p.m.); Zoflora.

FRIDAY; Amami wave set (between 7 and 11 p.m.).

SATURDAY: Pacquins hand cream (between 7 and 7.30 p.m.): Cussons' cold cream soap (at 10.45 p.m.); Fennings' cooling powders, mother's book, rheumatic tablets (between 2.45 and 3.30 p.m., and 10.45 and 11 p.m.).

PRESS ADVERTISING

COTY (ENGLAND), LTD., 3 Stratford Place, London, W.1: Coty 24 lipstick. In Woman & Beauty, Woman (October 11), Daily Mirror (October 17), Daily Mail (October 25), Daily Express (October 26), Evening Standard (October 31), and eleven provincial evenings.

WILLIAM FREEMAN & CO., LTD., Suba-Seal Works, Peel Street, Barnsley, Yorks: Suba-Seal hot-water bottles. In Daily Express (October 12, November 16).

S. Maw, Son & Sons, Ltd., Aldersgate House, Barnet, Herts: Maw's toilet lanolin. Winter campaign commences October 14. In Sunday Pictorial, Women's Sunday Mirror, Weekly News, Belfast Telegraph,

TOKALON, LTD., 450 Basingstoke Road, Reading, Berks: Rose skin food. In all major Lanca-shire newspapers during October and Novem-

C. & D. WEEKLY LIST OF PRICES

R=Reduced; I.R.P.=Inclusive Retail Price; *=Tax 30 per cent.; ‡=Tax 60 per cent.; †=Tax 90 per cent.

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Brovira s.w.			
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100	12	6	A
3½ x 5½ 25	4	6	Â
	14	11	A
100	14	11	A

(Prices of other paper sizes increased pro-rata). J. BIBBY & SONS, LTD. (from October 1)

6 Doz. tablet 34 Bibby soap COUNTY LABORATORIES, LTD. (correction) Amami wave set and conditioner† bottle 14 9 2 10 PHILIPS ELECTRICAL, LTD.

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P.A.T.A. LIST (Alterations notified this week by the Proprietary

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Oct	tober	1)		
15	9	1	9	A
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11				A
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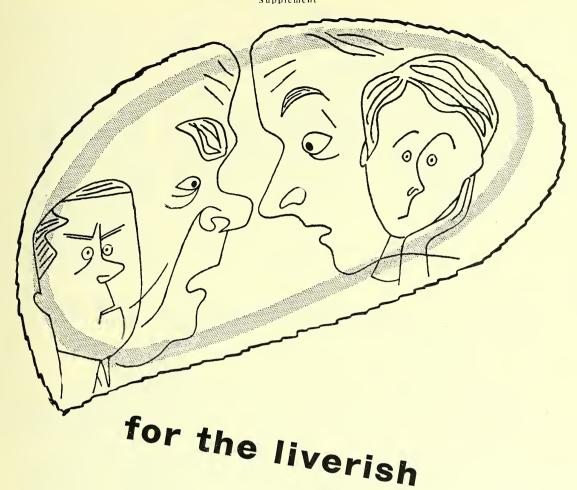
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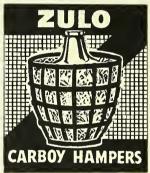
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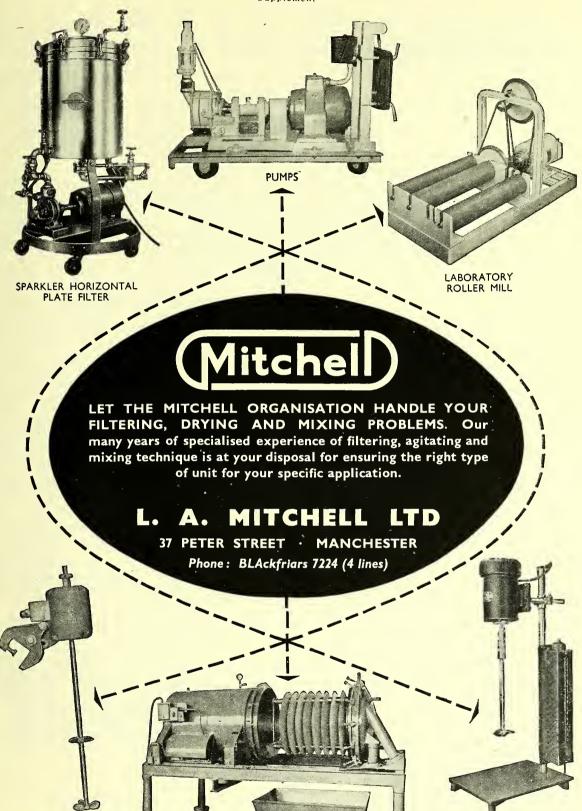
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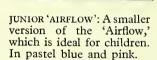
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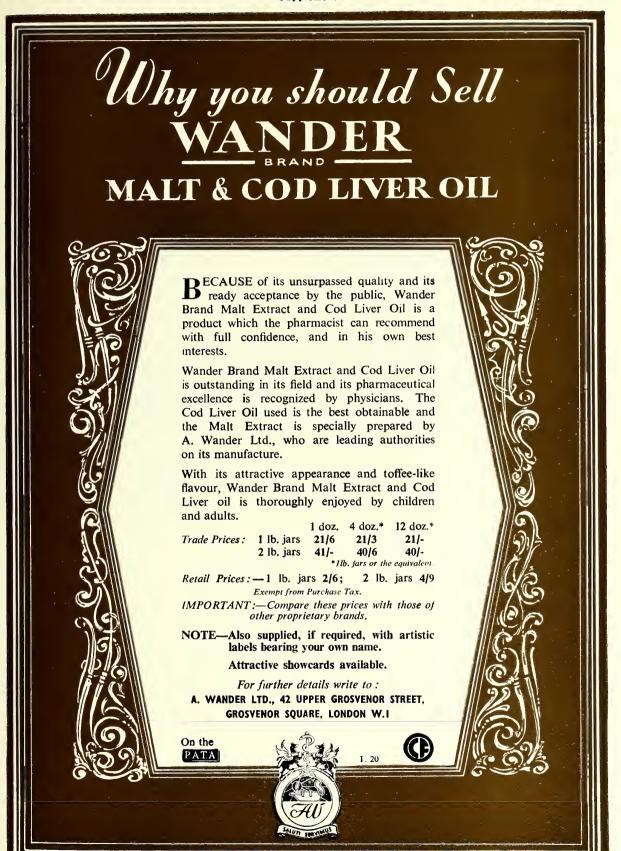
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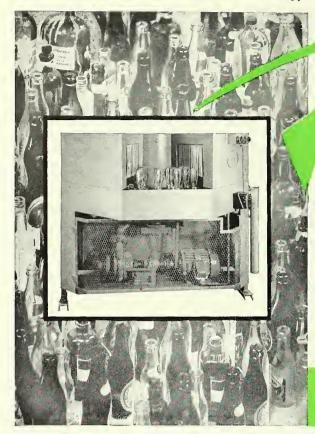


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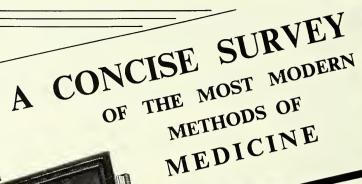
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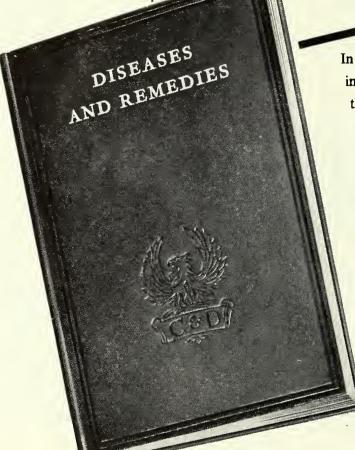
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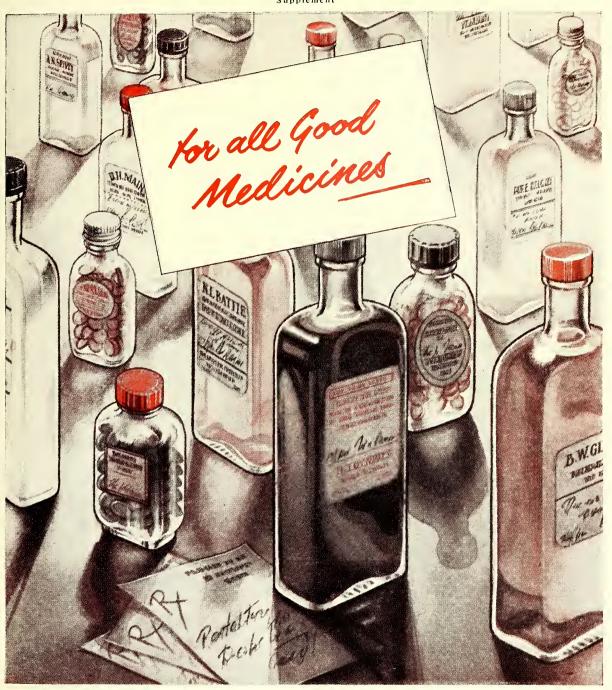
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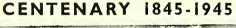
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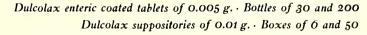
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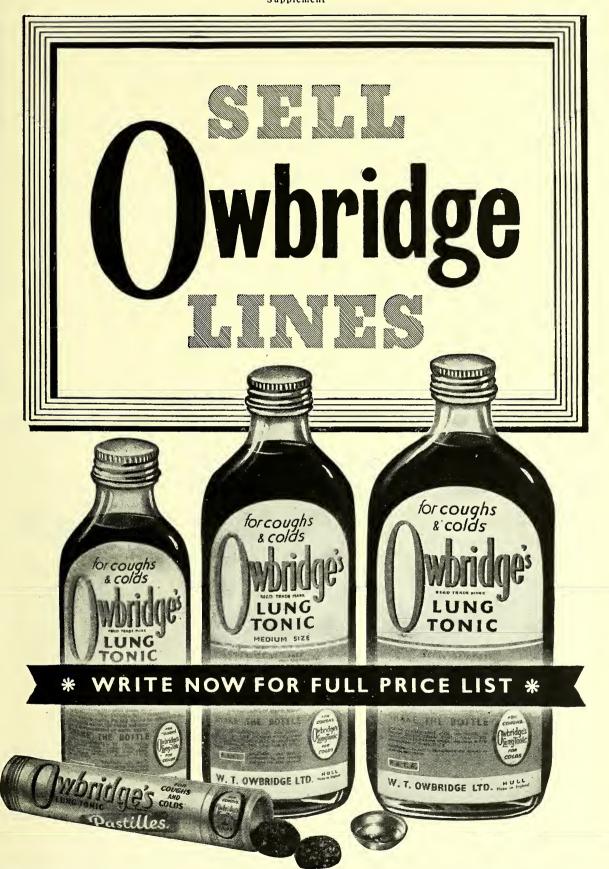
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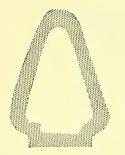
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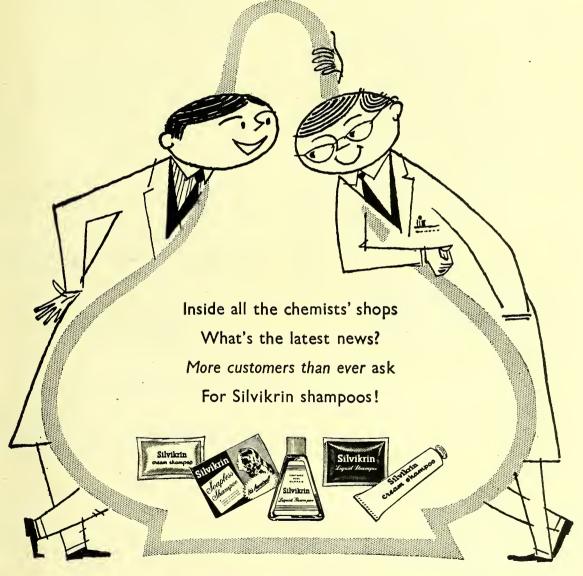
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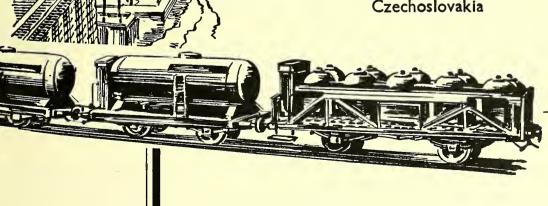
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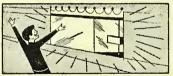
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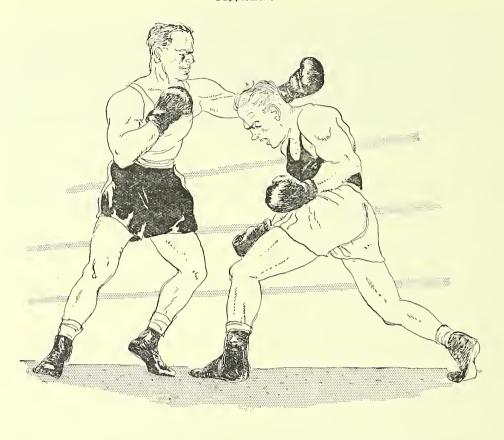
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Detailed information may be obtained from
the Chief Pharmacist.
Applications stating age, qualifications, and
experience, particularly in the preparation of
Sterile Products, together with the names of
two referees, to be sent to the Group Secretary,
General Hospital, Nottingham.

C 281

PRISON AND BORSTAL SERVICE AT H.M. PRISON, PENTONVILLE, LONDON, N.7 Chief Pharmacist (Category I) Applications are invited for the appointment of Chief Pharmacist, Category I, Applicants, who should be not less than 25 years of age, must be registered pharmacists. Salary £625 x £30—£835 x £15 to £850. London posts carry a £30 addition up to £800 and £40 on £801 and over. An allowance of £25 is payable in addition to holders of a recognised higher qualification.

able in addition to nolders of a recognised higher qualification.

Regulations and application forms from the Establishment Officer (E.51/7/9), Prison Commission, Room 204, Horseferry House, Dean Ryle Street, London, S.W.1, to be returned by October 27, 1956.

C 5714

ROCHDALE AND DISTRICT HOSPITAL MANAGEMENT COMMITTEE, BIRCH HILL HOSPITAL AND ROCHDALE INFIRMARY

Locum Pharmacist
required to work in either of the above general
hospitals under the direction of the Chief
Pharmacist. Salary £16 16s. per week.
Apply at once to Group Secretary, Central
Offices, Birch Hill Hospital, Rochdale. C 5728

ST. PETER'S HOSPITAL,

CHERTSEY, SURREY
pharmacist
required. Salary £500-£700 p.a. according to
experience. Whitley Council conditions. Accommodation available for single woman at £135
p.a. Applications stating age and experience to
Hospital Segretary. Hospital Secretary.

Appointments—Continued

ROYAL DEVON AND EXETER HOSPITAL, EXETER

EXETER
Pharmacist

Applications for the post of Pharmacist are invited with duties at other Exeter Hospitals. Salary in the range £500-£725 per annum, plus £25 per annum higher qualification allowance. The appointment is subject to medical examination and National Health Service regulations, Applications, stating age, qualifications and experience (if any) with copies of two testimonials, to the Hospital Secretary.

C 5711

SOUTH MANCHESTER H.M.C., WYTHENSHAWE HOSPITAL,

WYTHENSHAWE HOSPITAL,

MANCHESTER, 23

Biochemist

Applications are invited for the post of Biochemist in the Laboratory at the above Hospital. A University degree in Chemistry of A.R.I.C. are essential. Salary in accordance with Whitley Council scales in the basic or senior grades, according to experience. Applications stating age, nationality, qualifications, experience, and the names of two referees to be forwarded to the Administrative Officer at the hospital immediately.

C 5713

SOUTH-WEST MIDDLESEX HOSPITAL MANAGEMENT COMMITTEE, WEST MIDDLESEX HOSPITAL

(Category V) Senior Pharmacist

Senior Pharmaeist required to take charge of new Sterile Laboratory. Should be experienced in this type of work. Salary scale £575-£775 plus London Weighting, and higher qualification allowance £25 per annum. Commencing salary determined by previous experience. Whitley conditions. Applications, stating age, qualifications and experience, with copies of testimonials and names and addresses of three referees to Chief Pharmacist, West Middlesex Hospital, Isleworth, Middlesex. C 5729

ST. ALBANS CITY HOSPITAL, NORMANDY ROAD, ST. ALBANS, HERTS (384 Beds)

(a) Senior Pharmacist (Category III)

(a) Senior Pharmacist (Category III)

(b) Pharmacist
Applications are invited immediately for the post of Senior Pharmacist (Category III) at the above busy general Hospital, half an hour from Central London.
Pharmacist also required. This is a newly created post to meet the needs of a busy and expanding department, and would be suitable for a newly qualified person. Whitley Council salaries and conditions. Applications, stating age, qualifications and experience to the Chief Pharmacist.

C 285 Pharmaeist.

ST. ALFEGE'S HOSPITAL, **GREENWICH, S.E.10**

GREENWICH, S.E.10
(Category IV)
(a) Deputy Chief Pharmacist
(b) Senior Pharmacist
Applications are invited for the posts of (a)
Deputy Chief Pharmacist, salary £655-£880 p.a.; (b) Senior Pharmacist, salary £655-£880 p.a., in a well-equipped department at the above hospital, which may be inspected by arrangement with the Chief Pharmacist, Whitley Council conditions, Applications to Acting Secretary, G. & D./H.M.C., at above hospital, C 5710

TOOTING BEC HOSPITAL, TOOTING BEC ROAD,

Applications are invited for the post of Pharmacist at this hospital, Salary and conditions of service in accordance with the decisions of the appropriate Whittey Council, Applications, stating age, qualifications and experience, should be sent to the Physician Superintendent at the hospital.

C 5672

WHITTINGHAM HOSPITAL, Near PRESTON, LANCASHIRE

Senior Pharmaelst
(lady or gentleman) required to serve under
Chief Pharmacist, Modern up-to-date pharmacy,
Salary scale, a minimum of £575 and a maximum of £775 and due regard may be had to
previous experience, Permanent and pensionable post. Applications to Secretary without
delay. C 5726

THE BETHLEM ROYAL

HOSPITAL AND THE
MAUDSLEY HOSPITAL

(Post-graduate Teaching Hospital for Mental and Nervous Disorders) with which is associated the Institute of Psychiatry, University of London

the Institute of Psychiatry, University of London.

Senior Pharmacist and Pharmacist required at the Maudsley Hospital. Whitley Council salary scales, for the senior grade £575 rising to £775 a year, and for the other grade £500 rising to £725 a year, plus in each case London Weighting according to age, from £10 to £30 a year. The point of entry into the scales of pay will be determined by length of previous service. Extra payment of £25 for higher qualification. For form of application refer to K. J. Johnson, House Governor and Secretary, Maudsley Hospital, Denmark Hill, London, S.E.S.

C5720

WILTSHIRE COUNTY COUNCIL
Deputy Chief Pharmacist
Applications invited from pharmacists for superannuable appointment of Deputy Chief Pharmacist at SWINDON HEALTH CENTRE, Salary £625 to £850, Thirty-nine-hour week. Council house available for rent.
Applications, stating age, qualifications, experience and names and addresses of three referees to be sent to the undersigned as soon as possible.

P. A. SELBORNE STRINGER, Clerk of the County Council,

WORTHING GROUP HOSPITAL MANAGEMENT COMMITTEE, WORTHING HOSPITAL,

WORTHING FROM
LYNDHURST ROAD,
WORTHING, SUSSEX
Pharmacist
Applications are invited for the appointment of pharmacist (male or female), vacant November 1956, for duties in new department recently opened, Salary and conditions of service in accordance Whitley Council Scale, age, qualifications and experience, together with the names of two referees, to be forwarded to the Hospital Secretary.

A. V. OAKTON,
Group Secretary.
C 280

SITUATIONS VACANT

12/- for 36 words (min.) then 4d. per word Box 2/-

RETAIL (HOME)

DISPENSING ASSISTANT, lady, required shortly for middle-class family business, Good hours and easily worked pharmacy. Please give full details of previous experience, age, etc., to Arnold M. Gee, Ltd., 83 Dedworth Road, Windsor. C 4064 DONCASTER CO-OPERATIVE CHEMISTS DONCASTER CO-OPERATIVE CHEMISTS, LTD., require the services of pharmacist (male or female) as branch manager. Payment on "sales" scale, plus bonus, Salary at smallest branch over £900 per year. Rota payment extra, All shops in prosperous industrial areas where sales increases are possible, 44-hour week. Applications with usual particulars to the Superintendent Chemist, Doncaster Coperative Chemists, Ltd., P.O. Box 20, Doncaster, LADY ASSISTANT REQUIRED for counter. C 278
LADY ASSISTANT REQUIRED for counter,
display, stock, etc. Most agencies (Shop being
refitted November 4.) Apply stating age, experience, etc., Mr. Woollatt, 30 High Street, Banstead, Surrey, Burgh Heath 720 during day
(Burgh Heath 2024 after 7 or Sunday). C 4043
LONDON, Pharmacist (male or female) required to manage proposed new business. Possibility of partnership. Apply with full details,
stating when available for interview to Box
C 4060.

MANAGER REQUIRED for high-class branch business, Accommodation available. Permanency, with good prospects. Apply Philadelphus Jeyes & Co., Ltd., The Drapery, Northampton.

SCOTLAND: CHEMIST wanted with experience as pharmacy manager, for West Kilbride, A good commencing salary is offered with entry to superannuation seheme after initial period of service. Three-apartment flat with kitchen available at low rental. Applications in writing stating age, experience and when free for interview to: Mr. G. M. Archibald, M.P.S., Technical Supervisor, S.C.W.S., Ltd., Retail Drug Dept., 187 Bogmoor Road, Shieldhall, Glasgow.

NORTH LONDON. Vacancies for assistants with knowledge of dispensing for branches situated in North and North-west districts of London, Hours 9 a.m.-6 p.m. Three weeks holiday a year, Please apply stating age and previous experience to Messrs, A. R. Cross, Ltd., 476 Hertford Road, Enfield, or telephone Howard 1723 or 2916. C 5723 NORTH LONDON. Unqualified assistant required (lady or gentleman) for good-class business in North Finchley, N.3, near Finchley Central Station, Dispensing and counter, Hours 9 a.m. to 6 p.m. Thursday 1 p.m. Congenial position. Salary according to age and experience. Apply with details of previous experience to Box C 5690.

ence. Apply with details of previous experience to Box C 5690.

STOCKTAKERS. Orridge & Company offer permanent careers to applicants having good knowledge of retail prices, drugs, etc. Vacancies in London, Liverpool and Birmingham offices, Attractive salaries, Expenses paid, Previous experience preferred but not essential. Apply 184- Strand, W.C.2.

C 282

STRATFORD, E.15 (Near). Pharmacist of proved ability required to manage attractive and modern shop with varied dispensing connection. There is an excellent opportunity of a substantial salary and bonus. Good supporting staff and modern equipped dispensary, etc. Permanency with superannuation benefits. Apply with full details stating when available for interview to Box C 4065.

TOTIENHAM. Pharmacist required, with interest in photography, to manage a good-class establishment in this area. Splendid opportunity for promotion with good supporting staff and development is assured. Apply with full details stating when available for interview to Box C 4066.

VACANCY OCCURS for an experienced male assistant, must be accustomed to busy dispensing and general retail routine, No Sunday rota. Good salary for right man. Tomlinson, Ph.C., 63 Oxford Road, Burnley. C279

VORK CO-OPERATIVE CHEMISTS SOCIETY, LTD., require branch manager, lady or gentleman, for new pharmacy in suburb of York. Small, easily worked, but developing business, Good salary and conditions. Self-contained, splendidly equipped modern flat at moderate rental. Apply, giving full details to the Superintendent Chemist, 22 Railway Street, York.

LOCUMS WANTED

LOCUM REQUIRED from April to October, 1957. Newly qualified would be considered with prospect of permanency and early promotion to branch managership, Apply in writing to Pharmacy Manager, Plymouth Co-operative Society, Ltd., Vauxhall Street, Plymouth, C 4052

WHOLESALE

ALLIED LABORATORIES, LTD.

MEDICAL REPRESENTATIVES three areas: for

- (i) Sussex. (ii) Essex. (iii) Hertfordshire.

Men with sound pharmaceutical knowledge with sound pharmaceutical knowcoge and resident on the territories should apply with full details in confidence. Previous experience not essential and age is no bar. Commensurate remuneration, life assurance/pension scheme for established staff. Allied Laboratories, Ltd., 140 Park Lane, London, W.1.

AN OPPORTUNITY presents itself for an experienced tablet maker to take charge of a tablet manufacturing department in works of a well-known pharmaceutical house in Southwest Lancashire. A first-class man is required with administrative ability and wide experience of formulation. Salary in accordance with experience. Pension scheme in operation. A five-day working week, Apply Box C 5712.

GOOD OPPORTUNITY

arises for an Unqualified Assistant, to take charge of wholesalers drug and ethical department, Nottingham district, Good rates and progressive appointment, Apply Box C 5705.

PHARMETHICALS (LONDON) LTD.

Sole distributors for Schering A.G. Berlin

Expansion—demands additions to our team of Medical Representatives. There are vacancies throughout the country as well as the London area. Applications are invited, preferably from pharmacists or other suitably qualified or technical men. As residence upon territory is desirable—please state in first letter, territory required. A young organisation invites appreciation of initiative combined with ability. Previous experience is of value but not essential. A training course is given in London. Good salary, expenses and modern car—combined with an enlightened staff policy—promote a progressive and satisfactory future.

Apply, giving full details to: The Technical Director, Pharmethicals (London), Ltd., 18 Great Portland Street, London, W.1.

Sales Representatives for Kleenex and Allied **Products**

Exceptional opportunity young men around age of 30 to join a rapidly expanding organisation. Smart appearance, good educational background, personality and enthusiasm are essential. The appointments offer good salary and expenses, with unusual scope for personal advancement. Bonus Scheme and non-contributory Pension Scheme are already operating, and car provided. Apply in confidence giving details of age, education, and experience to Sales Manager, Cellucotton Division, Kimberly-Clark, Ltd., Larkfield, Maidstone, Kent.

Situations Vacant—Continued

Situations Vacant—Continued
BOOTS PURE DRUG CO., LTD., invite applications from Pharmacists or Chemists for positions in their Pharmaceutical Development Laboratory. The work involves investigation of new processes and formulations in the Laboratory and the translation of laboratory results to a production basis. Applications giving details of age, qualifications and experience should be addressed to the Personnel Manager, Station Street, Nottingham.

C 5696
FIRM OF HIGHEST REPUTE manufacturing a nationally advertised range of hair preparations and rapidly expanding their sales force require first-class representatives for several vacant territorics including London and the Home Counties. Applicants, who should possess their own car must have a live connection amongst retail and wholesale chemists. Excellent prospects. Apply Box C 5735.

HIGH-CLASS TOILET BRUSH manufacturers, old established, require travellers for various parts of England and Wales. Must be keen and active and have well-established connections amongst chemists, hairdressers and conperative societies, etc., and show good records of sales. Salary, commission and expenses. Excellent prospects and permanencies. Any references (copies only) to Box C 4069.

INTERNATIONAL COMPANY manufacturing manicure preparations has vacancy for assistant to the Export Director, Successful applicant would be required to undertake journeys to European countries. Fluent French essential, other Continental language advantageous. Knowledge of sales, advertising and production necessary. Every opportunity given to learn Company's methods. Age not over 45. Situation offers excellent prospects advancement, Apply in writing giving full particulars, education, experience and salary required to sist doctors, hospitals and pharmaceutical Division for medical representative to eover north-west England. Residence in Liverpool desirable. Successful applicant will be required to visit doctors, hospitals and pharmaceutical products. Experience of ethical detailing is essential and

MEDICAL REPRESENTATIVE required for the Cheshire and South Wales area; preferably 25-35; personality, enthusiasm and sales ability are prime requirements; pharmaceutical experience an advantage but an interest in medical technicalities and ability to learn quickly are an acceptable alternative; this is a congenial salaried post (with the minimum of paper work) detailing highest quality pharmaceutical products to the medical profession and scrvicing the retail and wholesale pharmaceutical trade; a car, replaced annually, is provided; liberal expenses allowed and a non-contributory pension scheme is operated. Applications, in writing, giving fullest details of education and experience, should be addressed to the Sales Manager, Lederle Laboratorics Division, Cyanamid Products, Ltd., Bush House, London, W.C.2.

MEDICAL REPRESENTATIVES required b MEDICAL REPRESENTATIVES required by London manufacturing chemists to call on doctors, dentists, hospitals, and chemists. Experience of medical detailing an advantage but not essential if applicant has a good pharmaceutical background. Applications invited from pharmacists, 25 to 40 years of age, stating experience and salary required. Box C 264.

MEDICAL REPRESENTATIVE required, age 25-35, for Middlesex, Berks, Bucks and Oxon. The work involves the promotion of medical specialties to doctors and pharmacists. Successful candidate will receive a course of training, but a good background of pharmaceutical or medical knowledge and previous experience would be desirable. Residence on territory, and driving licence, essential. Remuneration by salary and full expenses, no commission; contributory pension scheme. Apply giving full details in own handwriting to Medical Representation, Menley & James, Limited, Coldharbour Lane, London, S.E.S. C 5733 MEDICAL REPRESENTATIVE required

MIDDLESEX

APPLICATIONS invited from men with APPLICATIONS invited from men with real interest in medical representation to take over established connection. A sound knowledge of pharmacy is needed but experience of the work not essential. Residence in Middlesex or West London necessary. This is a first-class pensionable position. Staff know of advert. Full details, strictly confidential, to Box C 5718. OLD-ESTABLISHED cork manufacturers require representatives already calling on chemists. Commission basis only. Most areas available, except the South Coast, Box C 4026.

OLD-ESTABLISHED company manufacturing well-known pharmaceutical product require a first-class sales manager. The appointment offers excellent scope to a man with ability, enthusiasm and initiative, who should be thoroughly experienced in sales planning and promotion of consumer goods sold by chemists and possess a proved successful sales record. Please apply in strict confidence. Managing Director, Box C 4061. Director, Box C 4061.

PHARMACEUTICAL PRODUCTION

ASSISTANT PRODUCTION MANA-GER will shortly be required by a PHAR-MACEUTICAL COMPANY of high international repute. Applicant must have had mational repute. Applicant must have had a wide experience in modern manufacturing and packaging methods and plant management. He should be capable of taking complete charge when required, aged preferably between 30 and 40 and have a pharmaceutical qualification. The appointment entails working within 20 miles of London in pleasant surroundings. The company operates on a five-day week basis, canteen facilities are available and a contributory pension scheme is in operation. Applications giving full particulars of qualifications, experience and personal details, together with a photograph, should be sent in the first place to the Production Manager, Box No. 387, c/o Charles Barker & Sons, Ltd., Gateway House, London, E.C.4.

PROGRESSIVE FIRM of manufacturing chemists supplying bulk and packed cosmetics require first-class representatives with a live concection amongst hairdressers for their North London, Midlands and the North of England territories, also the South and West coast. Only first-class men, preferably with own car, considered, Excellent prospects, Box C 5737.

REPRESENTATIVE, calling on hospitals, wanting to carry additional line on commission basis. Box C 4053.

AN OPPORTUNITY EXISTS in the Export Department of Upjohn of England, Ltd. This post will provide excellent opportunity of advancement for a man under 40 years of age with a good ethical pharmaceutical background who has had experience in export activities. The position is a responsible one entailing some travel abroad, so that a second language is essential. A contributory superannuation scheme is in operation.

Applications, with full details of past experience, should be addressed to Upjohn of England, Ltd., 4 Aldford Street, London, W.1. C 5734

PFIZER LTD. MEDICAL REPRESENTATIVES

Owing to continued expansion Pfizer Ltd. wish to enlarge their Medical Representative Force and invite applications for these positions.

The Company is a British subsidiary of leading American ethical pharmaceutical house.

Preference will be given to applicants with pharmaceutical qualifications or experience with an ethical house. Good starting salary and expenses. Car provided. Non-contributory Pension Scheme. Previous applicants need not re-apply.

Applications, giving full particulars of age, experience, etc., should be made in writing to the Personnel Officer, 137/139, Sandgate Road, Folkestone, Kent, quoting ref. TN/10.

-HOLBORN SUPPLIES, LTD.,-55 Leather Lane, E.C.1. Phone: HOLborn 6689

ISOPAD ELECTRIC BLANKETS

Kite standard, and Good housekeeping. Also Pifco, Favourite, Popular, De Luxe (single and double), Morphy Richards Popular (single and double). Send for Catalogues, always in stock. Same day delivery Central

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SPECIAL & STANDARD

Situations Vacant—Continued

Situations Vacant—Continued

SIMPSON'S SHAVING BRUSHES require
smart representatives. Must be keen salesmen
with good connection amongst stores, chemists,
hairdressers, ete., for Scotland and the North
of England, Midlands, and the South of England. The positions carry good remuneration.
Salary, commission and expenses. State ground
covered, turnover, age, experience and remuneration, if a car owner, and whether engaged,
with copies only of references, if any, which
will be treated in confidence. Also, young man
to train as representative. Send full particulars
to Ninmer Mills, Chard, Somerset. C 4058
STAFF RECORD CLERK REQUIRED, Applicant should possess a general knowledge of
office routine. Excellent prospects. Applications to Chief Fharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton,
E.10. C 4067

TRAVELLER required for north-eastern counties. Must have good knowledge of trade and know chemists covering the area. Substantial salary, car allowance, and commission. Apply Box C 283.

WAREHOUSE MANAGER required for central distribute department of small group of retail chemists, Reply in first instance to Box C 4062.

WHOLESALE (OVERSEAS)

ABBOTT LABORATORIES, LTD. Ethical pharmaceutical manufacturers wish to engage a representative for Nigeria and Gold Coast. Candidates should be single and between 27 and 35 years of age, Previous experience in the pharmaceutical industry is not essential as adequate training will be given. Apply giving full details of age, education and career to date to Abbott Laboratories, Ltd., Perivale, Greenford, Middlesex. C 5687

AGENTS WANTED

AGENTS with established connection among wholesalers and large retailers required in Scotland, North, South and Midlands in England. Good selling line, Excellent commission, Apply Box C 4044.

UCAL

United Chemists Association, Ltd., are seeking Commission Agent to represent them in Scotland, Tyneside and Durham, calling on private chemists exclusively. Established accounts will be handed over and every assistance given. No objection to non-competitive products. Commission 10 per cent. to commence on Ucal Specialities, Packed Goods and Sundries. Applications, with full personal details and area and connection, in strict confidence to Sales Manager, Ucal Works, Cheltenham, Glos. C 573

AGENTS wanted to introduce attractive line aspirin tablets to wholesalers only. Packed 12's in "Little John" drums, retail 3d. Carded 2 doz's for wholesalers' trouble-free distribution. Unusually high remuneration initial and repeat orders. Box C 4071.

AGENT WANTED for London who is at present calling on chemists for the sale of infra-red health lamps as an additional line. Liberal commission. Box C 4059.

AGENT REQUIRED calling on chemists (re-

health lamps as an additional line, Liberal commission. Box C 4059.

AGENT REQUIRED calling on chemists (retail) for "Elizabethan" hot-water bottles. Longon and Home Counties. Write or phone George MacLellan & Co., Ltd., Burston Road, Putney, S.W.15. (Putney 5678.) C 4058 M.A.A.—The Badge of a good manufacturers' agent. Manufacturers requiring reputable agents are invited to communicate with the Secretary, The Manufacturers' Agents' Association of Great Britain & Ireland (Inc.), Bream's Buildings, E.C.4. Membership available to established agents only. Particulars supplied.

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word.

RETAIL (HOME)

C.P.C. OPTICIAN AVAILABLE half-day or whole day weekly. London or Home Counties, Box C 4037.

WHOLESALE

REPRESENTATIVE requires change, Excellent connection with chemists, co-operative societies, departmental stores, in counties Essex, Suffolk, Norfolk, Cambridge, Hunts, Conscientious and energetic representation given. Box C 4063.

"SET A THIEF TO CATCH A THIEF," Experienced general practitioner and writer available to compose or check forceful, appealing and accurate adventising copy for manufacturing chemists. Box C 4049.

AGENCIES WANTED 17/6 for 36 words (min.) then 4d. per word. Box 2/-

EXPERIENCED REPRESENTATIVE, aged 35 phone, car, already calling with chemists throughout Northern Ireland open to accept additional quick-selling line on commission basis. Trade references available from present firms. Box C 4056,

GENTLEMAN recently retired requires one or two non-clashing agencies for Birmingham and district. Sound connections with both retail and wholesale chemists. Own car, well-advertised lines only considered. Commission accordingly. Apply Box C 4070.

BUSINESS OPPORTUNITIES

17/6 for 36 words (min.) then 4d. per word, Box 2/-

FOR SALE, Manufacturing chemists reorganising production desire to dispose of trade marks, goodwill, stocks, etc., relating to tablets, ointments and other specialities with established home and export sales, Should be attractive to manufacturers of medicinal preparations. Box (2.572)

MANUFACTURING CHEMISTS invite inquiries for the manufacture, packing, etc., of private formulæ preparations, liquids, powders, tablets. Dispatch facilities available with own printing department. Frank Macowal & Yantas, Ltd., Wilshaw Street, London, S.E.14. Tel.: Tideway 3846-8.

OPTICIAN, C.P.C., requires room in pharmacist's premises for commencement of part-time optical practice in or near London. Rental or partnership. Box C 4038.

RUBBER (also Latex rubber), silicone rubber and other synthetic rubber mouldings and translucent tulbing made to customers' specifications. Esco (Rubber), Ltd., 34/36 Somerford Grove, London, N.16.

UNIQUE OPPORTUNITY offered to firm or energetic individual disposing of sales organisation, introduced with chemists and druggists, for sole sale of pharmaceutical reducing products, already obtainable abroad. The article is patented and unique, Certificates of satisfied clients and physicians open to inspection, Capital participation £150,000, References required. Write s.a. Juventas, 38 rue Osy, Antwerp, Belgium. C 5682

WANTED

17/6 for 36 words (min.) then 4d. per word. Box 2/-

ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair prices for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks, Discontinued lines. Surplus and Redundant Stocks, Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3. C 153

MEDICAL BOTTLES, tablet bottles, closures and all types of packaging materials purchased, no quantity too large. Samples and full details to Noel Davold & Co., 9 Laurence Pountney Lane, Cannon Street, E.C.4. Mansion House 3951-2.

WANTED, Solubilised Prussian Blues, Box

WANTED. Supplies of genuine O.P. wax, Box C 4054.

WANTED, 20 tons of Zircon Sand, minimum 65 per cent, ZrO2. Apply Box C 5715.

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large, Our representative will call anywhere. Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020 and 7692. C 140

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C 269

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MISCELLANEOUS

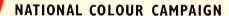
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